

auroras (A) in each State and on each day of the month, respectively.

Thunderstorms.—Reports of 4,943 thunderstorms were received during the current month as against 4,853 in 1898 and 5,476 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country were most numerous were: 2d, 302; 26th, 264; 5th, 250; 4th, 244; 10th, 237.

Reports were most numerous from: Pennsylvania, 240; Missouri, 224; Nebraska, 219; Florida, 218.

Auroras.—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz., 16th to 24th.

The greatest number of reports were received for the following dates: 29th, 12; 30th, 6; 3d and 4th, 5.

Reports were most numerous from: Minnesota, 5; Maine, Montana, New York, and Ohio, 4.

In Canada.—Auroras were reported as follows: Father Point, 6th, 9th, 30th; Quebec, 1st, 18th, 20th, 27th; Minnedosa, 4th, 5th, 30th, 31st; Qu'Appelle, 18th; Medicine Hat, 13th, 27th, 29th; Swift Current, 7th; Prince Albert, 3d, 30th.

Thunderstorms were reported as follows: Sydney, 2d, 9th; Halifax, 20th; Grand Manan, 23d; Yarmouth, 22d, 23d, 27th; Charlottetown, 14th, 16th; Father Point, 4th, 5th, 13th; Quebec, 3d, 4th, 5th, 12th, 13th, 22d, 25th, 31st; Montreal, 12th, 21st, 22d; Rockliffe, 21st; Toronto, 2d, 11th; White River, 11th, 20th, 21st, 29th, 30th; Port Stanley, 10th, 11th, 27th; Parry Sound, 2d, 12th; Port Arthur, 11th, 27th, 28th, 29th; Winnipeg, 10th, 19th; Minnedosa, 10th, 16th, 19th, 22d, 23d, 29th; Qu'Appelle, 9th, 19th; Medicine Hat, 6th, 8th, 9th, 10th, 11th, 13th, 22d, 25th; Swift Current, 6th, 8th, 9th, 10th, 15th, 24th, 25th; Calgary, 5th; Banff, 13th;

Prince Albert, 13th, 24th; Battleford, 7th, 9th, 15th, 23d; Kamloops, 6th, 13th; Barkerville, 8th, 11th, 14th, 24th, 26th.

NOTES ON THE WEATHER OF THE WEST INDIES.

Chart VIII shows the distribution of pressure and temperature, and the prevailing winds in the West India region for the month, being a continuation of the series begun in the Review for April, 1899.

The hurricane of August 7-10, described elsewhere in this Review and also in Storm Bulletin No. 1, was naturally the overshadowing feature of the weather of the month. A second disturbance occurred over the Caribbean Sea during the closing days of the month, but beyond a few squalls and some threatening weather no serious consequences resulted.

The rainfall was very heavy in Porto Rico in connection with the hurricane that swept over that island. A little over 9 inches of rain fell at Port of Spain, but elsewhere the fall was not heavy. At Havana only 0.14 inch fell during the entire month. Across the island at Cienfuegos 4.44 inches fell, that amount being distributed rather evenly throughout the month.

The greatest number of thunderstorms occurred at Cienfuegos, the observer at that station reporting 21 during the month. At Santiago, on the same side of the island, but 3 thunderstorms occurred, although more rain fell than at Cienfuegos.

Thunderstorms in the West Indies appear to be due almost solely to local causes, such as the breaking up of a condition of unstable equilibrium in the atmosphere and must, therefore, be classed as heat thunderstorms. As such they are not so severe as the cyclonic thunderstorms which occur in the United States.

DESCRIPTION OF TABLES AND CHARTS.

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For text descriptive of tables and charts see page 317 of REVIEW for July, 1899.

TABLE I.—*Climatological data for Weather Bureau Stations, August, 1899.*

Stations.	Elevation of instruments.		Pressure, in inches.		Temperature of the air, in degrees Fahrenheit.										Wind.							
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Mean actuals 8 a.m. and 8 p.m. + 3.	Mean reduced.	Departure from normal.	Mean max. and min. + 2.	Departure from normal.	Maximum.	Minimum.	Date.	Mean maximum.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Total movement, miles.	Prevailing direction.	Miles per hour.	Maximum velocity.	
<i>New England.</i>																						
Bairstow.	76	69	74	29.93	30.02	+ .05	67.1	- 0.2	80	68	1	73	54	25	82	1.97	- 2.0	5,810	s.w.	24	11	
Portland, Me.	108	81	80	29.88	29.98	+ .00	65.5	+ 1.3	87	79	19	73	51	28	80	0.58	- 3.0	4,477	s.s.	19	10	
Northfield.	872	15	65	29.10	30.01	+ .03	64.5	+ 1.6	90	72	21	73	51	44	86	0.56	- 3.9	5,469	n.w.	27	12	
Boston.	125	115	181	29.85	30.01	+ .08	68.8	- 0.3	90	19	19	73	57	15	82	0.56	- 1.9	6,064	e.e.	32	10	
Nantucket.	14	43	54	29.99	30.00	- 0.01	67.0	- 0.7	82	19	20	73	57	16	84	0.56	- 1.1	6,588	n.e.	11	7	
Woods Hole.	22	11	57	29.98	30.00	+ .01	69.1	+ 0.9	82	20	25	73	57	27	82	2.91	- 1.0	4,608	s.s.	22	14	
Vineyard Haven.	20	55	57	29.97	30.00	- .00	69.6	- 1.3	84	19	27	73	51	16	86	1.79	- 1.4	4,782	s.e.	25	28	
Block Island.	27	11	48	29.97	30.00	- .00	67.6	- 0.4	80	5	73	49	16	86	4.02	- 0.2	5,088	s.w.	26	s.		
Narragansett.	10	10	140	29.88	29.99	- .03	68.0	- 0.4	83	5	78	48	16	86	1.79	- 0.2	5,088	s.e.	26	2		
New Haven.	107	118	140	29.88	29.99	- .03	69.9	0.1	88	5	78	50	16	82	0.65	- 0.4	5,088	s.e.	26	2		
<i>Mid. Atlan. States.</i>																						
Albany.	97	84	118	29.90	30.01	+ .08	72.8	+ 1.1	92	20	83	50	15	83	32	55	1.97	4,152	s.s.	30	11	
Binghamton.	876	79	90	29.67	29.67	- 0.00	70.0	+ 1.3	91	21	84	49	9	84	28	57	2.44	3,488	n.w.	20	12	
New York.	814	813	846	29.67	29.67	- 0.01	73.6	+ 1.3	91	5	81	60	9	86	21	67	3.90	6,736	e.e.	64	5	
Harrisburg.	377	94	104	29.87	29.99	- .03	74.8	+ 1.1	95	21	92	53	17	87	24	67	4.85	3,884	n.e.	31	22	
Philadelphia.	117	168	184	29.87	29.99	- .01	71.4	- 1.0	95	21	92	58	17	87	18	69	5.18	7,474	e.e.	58	5	
Atlantic City.	53	68	76	29.93	29.98	- .01	70.4	- 0.4	92	5	76	55	15	87	18	68	5.56	8,299	n.e.	6	6	
Cape May.	24	62	70	29.96	29.98	- .01	72.4	- 0.8	86	20	80	61	8	86	26	87	2.98	8,948	n.e.	20	13	
Baltimore.	128	68	82	29.84	29.96	- .05	75.6	+ 0.7	97	20	84	58	17	87	26	88	4.86	10,572	n.e.	42	17	
Washington.	112	59	76	29.86	29.97	- .05	74.8	- 0.2	96	21	84	58	17	87	26	88	3.97	10,572	n.e.	24	14	
Cape Henry.	5	84	88	29.25	29.96	- .05	77.6	- 1.2	96	21	88	61	17	89	21	89	7.50	2,328	n.e.	17	12	
Lynchburg.	885	88	88	29.84	29.94	- .06	76.8	- 1.5	97	5	86	66	17	88	22	88	2.73	7,098	n.e.	42	17	
Norfolk.	92	102	111	29.84	29.94	- .06	78.5	- 1.9	99	5	86	63	29	70	70	80	5.61	4,723	n.n.	25	18	
Richmond.	144	98	108	29.84	29.94	- .06	76.0	- 0.8	98	5	86	63	29	70	27	80	6.81	0.0	25	5		
<i>S. Atlantic States.</i>																						
Charlotte.	778	68	76	29.16	29.95	- .04	79.4	+ 1.3	98	20	89	63	17	89	26	70	4.98	4,274	n.e.	35	10	
Hatteras.	11	17	38	29.89	29.90	- .09	78.4	+ 1.0	95	5	83	69	9	74	14	74	3.48	10,406	n.n.	17	12	
Kittyhawk.	9	12	30	29.84	29.90	- .05	77.0	- 0.6	97	5	82	68	16	72	18	70	3.47	10,098	n.e.	36	17	
Raleigh.	375	98	101	29.56	29.94	- .05	76.6	- 2.9	97	5	87	65	17	73	25	72	4.6	4,165	n.e.	36	16	
Wilmington.	78	82	80	29.86	29.94	- .05	79.8	- 1.6	98	4	90	65	17	73	25	72	5.79	6,170	n.w.	36	15	
Charleston.	48	14	32	29.92	29.97	- .03	88.3	+ 3.8	100	4	90	70	17	77	22	76	7.05	8,528	n.e.	57	15	
Columbia.	5	5	5	29.82	29.92	- .01	82.2	- 0.2	98	6	90	66	30	73	30	70	6.28	0.6	12	5.55		
Augusta.	180	89	108	29.75	29.94	- .03	82.0	- 2.6	98	4	92	68	29	73	27	73	6.17	4,325	s.s.	42	12	
Savannah.	82	68	82	29.86	29.94	- .06	82.9	- 2.6	100	4	92	67	29	73	27	73	9.04	6,136	w.e.	44	14	
Jacksonville.	43	69	84	29.90	29.95	- .03	82.8	- 1.7	98	6	92	69	29	74	24	75	8.90	5,370	s.w.	32	8	
<i>Florida Peninsula.</i>																						
Jupiter.	28	13	80	29.91	29.94	- .06	81.5	- 0.8	98	7	88	72	23	75	17	77	7.55	8,948	s.e.	52	13	
Key West.	22	48	50	29.94	29.96	- .00	84.2	- 0.8	90	27	88	72	23	75	17	77	8.80	5,948	s.w.	38	13	
Tampa.	33	60	67	29.91	29.95	- .02	82.8	- 0.9	98	23	70	70	23	75	24	76	4.98	4,269	w.w.	36	14	
<i>East Gulf States.</i>																						
Atlanta.	1,174	139	156	28.76	29.95	- .04	80.0	+ 3.5	96	22	89	68	29	71	24	72	80	5.83	6,488	n.w.	36	25
Macon.	370	79	90	29.89	29.90	- .04	81.1	- 0.7	97	10	91	68	29	71	29	72	1.04	4,394	w.e.	42	10	
Pensacola.	56	78	90	29.89	29.95	- .03	81.9	+ 1.5	94	1	89	65	31	75	21	76	10.49	6,066	n.w.	44	13	
Mobile.	57	88	98	29.89	29.95	- .03	88.3	+ 1.9	97	9	97	68	18	72	24	76	4.21	4,647	n.w.	34	13	
Montgomery.	221	100	112	29.71	29.94	- .04	81.7	- 1.9	99	12	91	67	29	73	24	76	8.86	4,035	n.e.	34	12	
Meridian.	375	84	94	29.80	29.94	- .04	80.4	- 2.6	96	9	90	65	31	71	24	76	6.45	8,231	s.w.	34	12	
Vicksburg.	247	65	73	29.65	29.91	- .08	82.4	- 2.3	98	23	91	67	30	74	23	76	8.66	4,880	s.e.	21	16	
New Orleans.	54	112	120	29.89	29.95	- .01	83.6	- 2.1	96	1	90	71	30	74	21	76	2.81	4,890	n.w.	31	14	
Port Eads.	27	27	27	29.88	29.95	- .04	81.8	- 0.2	91	* 7	87	70	27	76	16	76	7.68	0.0	36	20		
<i>West Gulf States.</i>																						
Shreveport.	249	77	84	29.65	29.91	- .06	86.4	- 1.5	94	1	91	68	29	74	29	73	6.61	3,979	s.e.	36	27	
Fort Smith.	457	74	82	29.42	29.89	- .05	84.5	- 6.8	109	11	97	67	31	73	32	73	1.15	3,980	e.e.	24	14	
Little Rock.	287	93	100	29.55	29.92	- .05	82.4	- 4.2	104	20	98	68	31	71	32	73	1.15	4,375	s.w.	60	12	
Corpus Christi.	20	42	50	29.89	29.91	- .05	88.1	- 1.7	92	16	88	75	20	78	16	88	0.00	5,692	s.e.	31	21	
Fort Worth.	670	67	104	29.66	29.92	- .05	87.0	- 0.2	98	23	88	68	31	78	21	78	0.00	5,606	s.w.	31	14	
Galveston.	54	85	96	29.87	29.92	- .03	88.4	- 0.2	98	23	88	68	31	78	21	78	2.52	5,606	s.w.	31	14	
Palestine.	510	54	61	29.83	29.91	- .06	88.5	- 3.3	106	23	94	67	31	73	21	78	0.8	4,160	s.w.	28	14	
San Antonio.	704	70	94	29.16	29.88	- .06	85.8	- 3.6	101	18	98	70	27	74	26	75	0.00	5,018	s.e.	28	14	
<i>Ohio Val. & Tenn.</i>																						
Chattanooga.	762	106	112	29.18	29.96	- .04	80.8	- 4.9	97	11	91	66	28	70	26	71	2.39	4,234	w.w.	42	26	
Knoxville.	1,004	10	88	28.94	29.97	- .05	78.4	- 5.6	95	25	89	64	18	78	26	73	1.52	3,973	n.e.	44	11	
Memphis.	329	140	154	29.52	29.98	- .05	82.6	- 3.9	97	13	90	67	27	75	26	74	2.08	3,146	s.w.	32	17	
Nashville.	545	126	134	29.40	29.96	- .02	80.2	- 2.7	96	11	90	65	27	70	27	75	2.53	3,487	n.e.	34	17	
Lexington.	930	75	103	29.18	29.97	- .03	77.0	- 3.1	95	8	88	59	8	87	26	74	4.18	5,439	n.e.	45	15	
Louisville.	525	114	136	29.41	29.96	- .01	79.3	- 2.9	98	8	89	63	8	87	27	74	0.00	1,950	n.p.	50	15	
Evanston.	494	72	82	29.82	29.96	- .05	80.2	- 2.8	95	22	98	65	16	71	26	75	3.93	8,822	s.e.	34	26	
Indianapolis.	628	152	157	29.33	29.97	- .08	77.6	- 2.6	98	22	98	63	16	72	26	75	3.65	5,474	n.e.	35	26	
Cincinnati.	828	152	157	29.33	29.97	- .02	75															

TABLE I.—Climatological data for Weather Bureau Stations, August, 1899—Continued.

Stations.	Elevation of instruments. Barometer above sea level, feet. Thermometers above ground. Anemometer above ground.	Temperature of the air, in degrees Fahrenheit.												Mean temperature of the dew-point. Mean relative humidity, per cent.	Precipitation, in inches. Total movement, miles.	Wind.			Maximum velocity. Miles per hour.	Clear days. Partly cloudy days. Cloudy days. Average cloudiness, tenths.	Total snowfall.				
		Pressure, in inches.			Departure from normal.			Mean max. and min. + 2.			Departure from normal.					Mean maximum.	Mean minimum.	Greatest daily range.	Mean weatherometer.	Days with 0.1 or more.	Prevailing direction.	Direction.			
		Mean actual, 8 a.m. and 8 p.m. + 2.	Mean reduced.	Departure from normal.	Date.	Mean.	Maximum.	Date.	Mean.	Maximum.	Date.	Mean.	Maximum.	Date.	Mean.	Maximum.	Date.	Total.	Departure from normal.	Days with 0.1 or more.	Prevailing direction.	Direction.			
<i>Upper Miss. Valley.</i>																									
Minneapolis	99	208	29.03	29.90	—.07	75.9	+ 5.1	96	10	83	54	18	73	31	31	31	3.51	+ 0.6	12	s. se.	20	7	13	11	
St. Paul	837	114	124	29.03	29.90	—.07	72.0	+ 2.9	96	10	81	53	18	62	30	32	3.72	+ 0.4	13	s. se.	32	19	10	11	
La Crosse	720	70	73	29.80	29.93	—.06	72.7	+ 2.6	94	10	83	53	18	62	30	32	4.27	+ 0.4	11	s. sw.	20	11	10	10	
Davenport	606	71	73	29.80	29.93	—.04	75.6	+ 2.8	95	10	83	55	14	83	61	64	4.47	+ 0.9	7	e. se.	24	20	15	9	
Des Moines	867	84	88	29.08	29.93	—.04	75.0	+ 3.0	92	10	83	55	15	84	62	64	5.17	+ 0.8	9	e. se.	30	20	9	15	
Dubuque	608	101	109	29.21	29.94	—.05	74.4	+ 2.8	93	10	83	55	15	84	62	64	5.47	+ 1.2	8	e. se.	36	20	14	15	
Kokonk	614	64	68	29.30	29.93	—.05	77.0	+ 2.5	96	4	87	97	31	84	66	66	4.01	+ 1.2	7	e. sw.	24	17	14	15	
Cairo	259	87	93	29.56	29.98	—.04	81.0	+ 4.0	96	12	80	68	24	73	71	77	1.06	+ 1.8	4	s. s.	36	13	9	15	
Springfield, Ill.	644	83	92	29.28	29.94	—.06	76.7	+ 3.8	93	8	88	56	16	65	68	68	4.908	+ 1.5	9	e. sw.	26	4	10	8	
Hannibal	534	75	107	29.30	29.94	—.06	77.4	+ 3.3	97	8	87	61	15	63	28	28	4.825	+ 1.0	7	e. sw.	10	20	13	16	
St. Louis	567	111	210	29.34	29.98	—.04	81.1	+ 4.3	98	3	90	64	16	72	24	71	1.88	+ 5.4	7	s. ne.	39	13	16	7	
<i>Missouri Valley.</i>																									
Columbia	788	4	84	29.95	29.92	—.07	78.8	+ 3.7	95	10	83	59	18	63	31	31	3.45	+ 0.7	7	s. se.	40	14	9	8	
Kansas City	963	76	95	28.92	29.90	—.07	79.4	+ 3.7	100	23	89	64	26	70	31	70	5.20	+ 1.3	11	s. se.	44	12	10	5	
Springfield, Mo.	1,324	100	103	28.57	29.91	—.06	80.8	+ 6.8	98	12	91	64	16	70	29	71	0.75	+ 3.3	5	w. se.	32	26	20	11	
Topeka	81	100	104	28.57	29.91	—.06	79.5	+ 4.7	100	23	90	61	25	69	31	31	2.05	+ 2.4	7	s. se.	37	16	12	3	
Lincoln	1,199	74	84	28.63	29.87	—.09	76.8	+ 3.2	98	2	88	55	25	66	68	64	2.66	+ 0.4	10	e. se.	48	12	14	5	
Omaha	1,105	115	128	28.73	29.86	—.10	76.8	+ 3.1	95	10	86	60	25	68	65	74	6.18	+ 2.8	10	s. se.	43	1	13	8	
Sioux City	1,139	94	104	28.73	29.86	—.10	74.3	+ 2.6	95	10	85	54	24	63	31	31	4.91	+ 1.1	10	s. se.	59	22	12	11	
Pierre	1,572	50	62	28.20	29.81	—.13	74.2	+ 1.4	98	25	87	52	18	63	38	61	5.52	+ 2.0	9	s. se.	48	23	13	11	
Huron	1,306	54	62	28.49	29.81	—.10	72.4	+ 4.0	100	21	85	46	24	59	63	57	2.06	+ 0.4	14	s. se.	48	25	11	13	
Yankton	1,234	52	58	28.49	29.81	—.10	73.4	+ 1.6	98	28	84	53	24	63	32	32	5.46	+ 2.4	12	s. s.	38	23	11	13	
<i>Northern Slope.</i>																									
Hayre	2,494	46	47	27.24	29.81	—.10	62.0	+ 3.6	85	6	74	41	26	50	38	53	47	3.14	+ 1.8	18	s. sw.	49	22	19	11
Miles City	3,371	46	50	27.35	29.77	—.13	70.0	+ 1.7	85	2	85	45	24	55	52	52	6.03	+ 0.6	6	s. ne.	40	20	12	5	
Helena	4,106	83	93	25.79	29.91	—.01	60.7	+ 5.8	86	31	72	41	22	49	46	46	1.39	+ 0.5	6	s. sw.	40	12	13	2	
Kalispell	2,964	45	61	26.85	29.90	—.06	56.1	+ 1.1	81	1	87	38	24	45	33	49	4.93	+ 2.0	12	s. sw.	26	25	5	15	
Rapid City	3,251	46	56	26.82	29.77	—.13	71.4	+ 1.5	81	1	87	42	27	84	47	54	0.52	+ 0.8	6	s. se.	24	16	23	2	
Cheyenne	6,084	58	60	24.04	29.83	—.06	65.4	+ 0.4	88	26	80	39	21	51	41	50	3.52	+ 1.15	10	s. sw.	38	8	14	10	
Lander	5,372	26	36	24.62	29.87	—.06	63.3	+ 1.7	86	27	80	39	23	46	45	48	4.08	+ 0.7	3	s. sw.	36	8	14	9	
North Platte	2,826	43	52	27.00	29.84	—.09	73.0	+ 1.6	97	33	85	44	24	61	38	63	1.88	+ 0.6	8	s. se.	30	22	16	11	
<i>Middle Slope.</i>																									
Denver	5,390	79	151	24.73	29.84	—.03	71.9	+ 1.8	94	21	87	51	20	57	89	55	4.14	+ 1.78	7	s. sw.	43	15	19	9	
Pueblo	4,682	74	81	25.26	29.82	—.08	73.7	+ 1.4	96	21	89	41	18	58	49	52	2.63	+ 0.6	8	s. se.	40	13	20	8	
Concordia	1,396	42	47	28.49	29.85	—.11	79.8	+ 5.4	102	19	94	58	20	67	36	67	1.39	+ 0.5	6	s. sw.	43	27	17	13	
Dodge	2,504	42	52	27.80	29.81	—.10	80.8	+ 5.6	103	19	94	58	20	67	36	67	0.50	+ 2.4	6	s. se.	39	20	12	5	
Wichita	1,351	78	95	28.48	29.85	—.07	82.0	+ 5.5	104	19	94	64	13	70	59	64	2.45	+ 1.1	6	s. se.	40	11	16	3	
Oklahoma	1,218	54	62	28.61	29.85	—.07	88.8	+ 4.4	102	21	95	68	25	73	30	70	0.58	+ 2.8	8	s. se.	24	8	27	4	
<i>Southern Slope.</i>																									
Abilene	1,749	45	54	28.10	29.84	—.10	87.1	+ 5.9	101	18	99	72	30	75	68	57	4.16	+ 2.6	1	s. se.	26	31	29	2	
Amarillo	3,691	54	61	26.21	29.83	—.10	78.5	+ 5.9	97	19	92	62	13	66	33	32	0.46	+ 0.7	3	s. n.	24	23	23	1	
<i>Southern Plateau.</i>																									
El Paso	3,767	10	110	26.12	29.80	—.05	82.0	+ 8.0	99	27	94	65	9	70	32	63	51	0.91	+ 0.9	7	s. nw.	35	17	16	14
Santa Fe	6,993	50	53	25.84	29.87	—.07	68.7	+ 2.4	97	27	80	53	19	58	52	58	4.06	+ 2.2	8	s. s.	35	1	21	9	
Flagstaff	6,885	12	25	25.40	29.98	—.08	60.9	+ 2.4	81	31	76	34	23	48	46	51	2.72	+ 0.7	7	s. sw.	35	1	21	10	
Phoenix	1,076	47	57	26.65	29.74	—.08	87.5	+ 0.7	108	30	101	67	24	74	36	66	0.89	+ 0.1	5	s. se.	24	21	21	4	
Yuma	139	16	50	29.57	29.71	—.04	86.6	+ 4.1	109	30	102	63	18	71	40	67	0.06	+ 0.3	1	s. se.	24	21	21	4	
Independence	3,907	10	58	26.88	29.72	—.05	73.5	+ 5.6	91	1	86	52	17	53	51	51	0.25	+ 0.5	3	s. se.	11	27	4	0	
<i>Middle Plateau.</i>																									
Carson City	4,720	92	93	25.89	29.85	+ .05	63.1	+ 4.9	86	5	73	3													

TABLE II.—*Climatological record of voluntary and other cooperating observers, August, 1899.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Alabama.</i>	°	°	°	Ins.	Ins.	<i>Arizona—Cont'd.</i>	°	°	°	Ins.	Ins.	<i>California—Cont'd.</i>	°	°	°	Ins.	Ins.
Alico.	96	66	79.7	7.88	Ins.	Pinal Ranch.	°	°	°	1.76	1.76	Centerville *1.	°	°	°	Ins.	Ins.
Ashville.	100	62	80.4	2.43		Prescott.	95	40	67.6	0.89		Chico *1.	100	58	69.3	73.2	0.12
Bermuda.	95	68	81.0	3.88		San Carlos.	108	56	83.5	0.85		Cisco *1.	74	40	52.3	52.3	0.50
Birmingham.	98	67	82.0	2.15		San Simon *1.	99	70	82.0	0.00		Claremont.	96	38	67.0	0.00	
Bridgport.				3.07		Sentinel *1.	109	78	93.6	0.00		Corning *1.	73	65	76.8	76.8	0.00
Citronelle.	95	63	81.7	7.02		Signal.	113	52	84.4	0.41		Coronado.	73	66	66.4		
Clanton.	95	64	79.7	2.52		Snowflake.	93	42	68.7	1.43		Craftonville.	102	50	73.0	73.0	0.00
Daphne.	100	68	82.6	5.10		Strawberry.	89	39	65.6	8.24		Crescent City.	71	41	56.1	1.53	
Decatur.	101	65	81.8	3.82		Texas Hill *1.	114	80	96.8	T.		Crescent City L. H.					
Demopolis.				2.08		Tombstone.	97	61	76.9	1.56		Cuyamaca.	95	29	62.0	T.	
Eiba.	100	61	79.8	3.99		Tonto.				2.20		Delano *1.	95	61	78.6	T.	
Eufaula *1.	100	67	81.8	5.79		Tuba.	100	58	76.0	0.87		Delta *1.	99	52	70.3	0.00	
Evergreen.	98	68	79.9	1.60		Tucson.	104	68	83.6	1.82		Dewey.	101	41	75.2	T.	
Florence *1.				0.71		Vall *1.	99	70	82.9	0.29		Drytown.	100	42	72.0	0.01	
Florence b.	100	67	82.7	0.70		Walnut Grove.				0.08		Durham *1.	94	54	73.0	0.01	
Fort Deposit.	98	67	81.2	2.63		White Hills.	102	60	80.9	2.25		East Brother L. H.					
Gadsden.	101	63	80.6	3.69		Willcox.				0.51		Edmonton *1.	88	40	58.7	1.64	
Goodwater.	102	61	81.2	3.25		Winslow.	99	46	74.3	1.07		El Cajon.	100	45	70.2	T.	
Greensboro.	97	68	81.6	1.89		Yarnell.				1.06		Elmwood.	99	44	70.0	T.	
Hamilton.				3.69		<i>Arkansas.</i>						Elsinore.	108	44	74.0	T.	
Healing Springs.	98	65	81.2	3.49		Amity.	102	63	83.8	1.00		Escondido.	92	41	67.2	T.	
Highland Home.	94	67	80.0	3.70		Arkansas City.						Fallbrook *1.	98	55	67.2	0.03	
Jasper.	99	65	81.4	2.48		Beebranch.	105	62	80.2	1.20		Folsom City *1.	96	60	71.5	0.06	
Livingston a.	96	57	81.8	3.95		Blanchard Springs.	102	65	82.8	2.33		Fordyce Dam.					
Lock No. 4.	96	65	80.0	3.82		Brinkley.	100	63	82.7	1.84		Fort Ross.	80	44	58.1	0.00	
Madison Station.	99	65	81.6	2.67		Camden a.						Georgetown.	88	47	67.2	0.14	
Maple Grove.	99	61	80.8	2.23		Camden b.	102	60	83.6	1.26		Gilroy (near).	93	41	64.9	T.	
Marion.	98	66	82.6	3.50		Canter.	99	60	80.0	2.68		Goshen *1.	98	56	73.8	0.00	
Mount Willing.	100	62	84.2	4.47		Conway.	112	67	85.8	2.92		Grand Island *5.	99	52	72.8	0.18	
Newbern.	97	68	88.0	1.60		Corning.	103	61	81.5	3.65		Grass Valley.					
Newburg.	97	64	81.0	3.08		Dallas.	104	64	84.3	2.42		Greenville.	89	29	58.0	0.60	
Newton.	97	64	79.3	3.55		Dardanelle.						Hanford.	98	47	73.6	0.00	
Oneonta.	93	65	78.4	1.14		Eton.	104	65	80.4	1.97		Healdsburg.	98	36	64.9	0.11	
Opelika.	98	65	80.4	3.69		Fayetteville.	101	59	82.3	2.43		Hollister.	91	42	62.6	0.00	
Oxanna.	96	65	79.7	3.66		Forrest.	99	68	82.3	0.47		Humboldt L. H.					
Pineapple.	102	65	82.8	4.05		Fulton.						Indio *1.	108	70	87.2	0.00	
Pushmataha.	97	65	81.8	2.77		Hardy.	96	65	80.4	3.08		Iowa Hill *1.	89	52	67.0	0.32	
Riverton.	103			2.61		Helena a.						Irving.	98	60	77.5	T.	
Rockmills.	100	65	80.8	1.08		Helena b.	103	69	84.4	1.76		Jackson.	84	44	64.6	0.07	
Scottsboro.	95	62	79.7	3.92		Hot Springs.	106	64	85.2	1.55		Jolon.					
Selma.	101	65	83.5	3.45		Malvern.	107	68	88.6	3.83		Keene *1.	92	52	70.8	0.00	
Talladega.	98	64	80.6	2.90		Marianna.	97	65	81.2	3.83		Kennedy Gold Mine.	89	44	66.8	0.00	
Tallassee.				3.39		Pinesboro.	65					Kernville.					
Thomasville.	98	66	81.6	1.04		Keeses Ferry.	106	63	81.6	0.73		King City *1.	94	48	59.0	0.00	
Tuscaloosa.	99	66	89.0	3.59		Lacrosse.	65					Kingsburg *5.	95	60	80.1	0.00	
Tuscumbia.	99	68	83.2	1.32		Lonoke.	100	63	82.0	2.04		Kono Tayee.	88	54	70.3	T.	
Union Springs.	97	66	81.7	6.93		Luna Landing *1.	27	68	79.4	2.12		Lagrange *5.	100	55	75.8	0.02	
Uniontown.	99	69	88.6	3.50		Malvern.	107	68	88.6	3.83		Lamesa.					
Valleyhead.	98	64	79.4	4.51		Pocahontas.	96	68	80.4	3.28		Lankershim.	100	52	74.8	0.05	
Warrior.				1.38		Pond.	98	57	79.0	0.80		Laporte *1.	78	43	54.7	0.82	
Wetumpka.	99	68	82.6	2.41		Powell.	61					Las Fuentes Ranch.					
Wilson *1.	98	72	81.8	7.57		Prescott.	106	66	85.8	0.45		Legrand.	99	49	73.6	0.01	
<i>Alaska.</i>						Rison.	54					Lemoncoove.	101	59	76.0	0.00	
Killisnoo.	68	40	53.9	1.95		Russellville.	105	64	81.4	1.90		Lemoncoove *1.	97	54	76.3	0.00	
Sitka.	67	40	54.6	8.85		Silver Springs.	99	60	80.5	0.65		Lick Observatory.	80	41	61.8	0.12	
Tyoonk.	71	88	56.4	2.73		Spierville.	110	64	84.4	0.07		Lime Point L. H.					
<i>Arizona.</i>						Stamps.	106	65	85.0	0.11		Lodi.	93	49	68.7	0.39	
Allaire Ranch.				0.57		Stuttgart.	101	62	82.1	2.78		Los Alamos.					
Arizona Canal Co. Dam.	108	58	84.0	1.79		Texarkana.	105	65	85.6	0.73		Los Gatos b.	88	46	63.2	T.	
Aztec *5.	112	79	97.8	0.00		Warren.	104	65	84.4	2.43		Malakoff Mine.	87	46	65.2	0.67	
Benson *1.	98	74	88.8	1.54		Washington.	101	67	84.5	0.73		Mammoth Tank *1.	111	75	91.0	T.	
Bisbee.	98	68	74.7	4.77		Wiggs *1.	104	68	84.1	1.35		Manzana.	99	55	75.2	0.00	
Blasdell *1.	111	74	92.8	0.00		Witts.	94	62	79.2	0.67		Mare Island L. H.					
Bowie.				0.00		Witts Springs.	101	61	80.8	1.68		Merced a.	98	59	74.6	0.20	
Buckeye.	108	56	84.7	0.55		California.						Merced b.	99	40	73.7	0.14	
Camp Creek.	100	61	80.4	0.69		Agnew.	88	46	66.0	0.00		Mills College.					
Casa Grande *1.	106	75	89.5	T.		Anada.	95	38	62.4	0.41		Milo.					
Champlie Camp.	111	68	85.6	1.85		Angiola.	103	46	73.8	T.		Milton (near) *1.	94	52	69.8	0.12	
Cochise *1.	100	68	78.6	0.88		Arlington Heights.	103	49	72.4	0.00		Modesto *1.	96	53	67.9	0.00	
Congress.	101	66	82.6	0.75		Bakersfield.	101	47	74.4	T.		Mohave *1.	97	55	75.3	0.00	
Dragoon.				8.10		Ballast Point L. H.						Mokelumne Hill *3.					
Dragoon Summit *1.	95	60	75.6	2.34		Bear Valley.						Monterio.	102	58	74.8	0.00	
Dudleyville.	103	58	81.7	1.45		Berkeley.	78	51	61.2	T.		Monterey *1.	79	54	68.0	0.09	
Fort Apache.		50		0.96		Bishop.	93	38	66.7	0.05		Morena Dam.	102	38	70.8	0.00	
Fort Defence.	85	41	66.0	1.73		Blue Lakes City.	98	41	69.2	T.		Ogilby *1.	118	80	95.8	0.00	
Fort Grant.	92	52	58.	0.52		Boca *1.	86	30	50.8	0.98		Oleta *1.	88	51	65.5	0.17	
Fort Huachuca.	93	53	74.8	5.77		Bodie.	77	20	50.2	0.88		Orland *1.	102	60	78.5	0.00	
Fort Mohave.	118	61	88.2	0.87		Bowmans Dam.						Palermo.	98	47	72.2	0.18	
Gilabend *1.	110	68	87.9	0.42		Cajon.						Paso Robles b.	88	44	65.6	0.00	
Holbrook.	99	47	75.4	0.98		Caliente *1.	96	60	75.6	0.00		Peachland *5.	85	46	62.8	0.19	
Hot Springs.	106	62</td															

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>California—Cont'd.</i>	°	°	°	In.	In.	<i>Colorado—Cont'd.</i>	°	°	°	In.	In.	<i>Florida—Cont'd.</i>	°	°	°	In.	In.
Point George L. H.	50	30	40	0.46	0.00	Gunnison	82	38	57.2	2.06	101	70	88.0	6.80	Ins.	Ins.	
Point Huememe L. H.	66	50	57.0	0.00	Hamps	98	45	68.2	2.19	101	69	82.7	3.66				
Point Lobos	66	50	57.0	0.10	Hoehne	97	40	71.0	0.94	101	68	82.2	5.18				
Point Loma L. H.	66	50	57.0	0.00	Holly	.....	.....	.....	2.95	93	68	81.2	3.29		
Point Montara L. H.	66	50	57.0	0.19	Holyoke	.....	.....	.....	1.17	96	71	88.0	7.55		
Point Pinon L. H.	66	50	57.0	0.06	Holyoke (near)	105	40	74.0	2.59	93	72	81.8	6.73				
Point Sur L. H.	103	47	72.6	0.00	Hugo	97	40	69.4	2.55	95	69	80.8	7.02				
Pomona (near)	98	56	65.0	0.00	Husted	97	40	64.9	1.75	101	69	82.9	4.61				
Poway * ²	98	56	65.0	0.00	Ike Moraine	77	34	55.6	2.44	101	69	82.6	6.28				
Quincy	86	33	59.5	1.09	Lamar	106	49	78.8	2.40	98	68	82.6	5.59				
Ranch House	92	60	74.4	T.	Laporte	.....	.....	.....	0.95	99	70	82.4	8.28		
Raymond	105	44	74.4	0.08	Las Animas	102	48	76.1	1.53	97	69	81.7	6.97				
Redding	97	56	73.6	0.08	Leadville (near) * ¹	74	36	61.2	1.41	94	71	81.8	4.56				
Redlands	104	50	73.4	0.04	Leroy	99	48	71.7	2.38	94	71	81.8	4.56				
Repressa	90	52	69.4	0.04	Longs Peak	79	32	56.9	1.73	94	72	81.2	10.22				
Rio Vista	92	49	68.8	T.	Mancos	87	30	62.4	2.63	91	69	80.7	4.37				
Roe Island L. H.	.....	.....	.....	Meeker	90	29	62.6	2.13	92	69	80.0	11.46			
Romie	94	40	64.8	0.00	Mitchell	105	53	78.4	2.20	92	70	82.2	2.03				
Rosewood	100	47	71.6	T.	Moraine	80	34	59.2	1.32	98	67	81.6	.....			
Sacramento ^a	90	48	68.0	0.04	Pagoda	91	27	62.0	1.80	94	64	79.0	4.64				
Salinas * ¹	76	50	60.4	0.00	Parachute	94	48	70.8	1.05	100	66	82.0	4.19				
Saiton * ¹	117	82	95.8	0.45	Perry Park	.....	.....	.....	1.10	100	66	82.0	4.19		
San Bernardino	105	42	71.4	T.	Rangely	91	38	68.1	2.04	100	66	82.4	4.09				
San Leandro * ¹	84	53	68.6	T.	Rockyford	99	46	73.7	2.23	101	67	83.8	3.26				
San Luis L. H.	.....	.....	.....	Ruby	.....	.....	.....	0.18	96	68	82.0	4.39			
San Mateo * ¹	90	57	67.4	0.02	Saguache	82	42	71.0	0.86	98	65	81.2	8.83				
San Miguel * ¹	91	58	67.8	0.00	Salida	90	38	64.7	0.79	100	70	81.8	7.28				
Santa Barbara ^a	81	54	65.6	0.00	San Luis	88	32	61.9	0.54	96	60	80.0	11.37				
Santa Barbara L. H.	.....	.....	.....	Santa Clara * ¹	85	48	64.4	1.11	95	70	80.2	5.39			
Santa Clara ^a	.....	.....	.....	Seibert	.....	.....	.....	0.68	98	66	82.2	6.26			
Santa Cruz ^b	86	40	62.0	0.05	Smoky Hill Mine	88	36	60.0	3.98	100	66	82.0	4.09				
Santa Cruz L. H.	.....	.....	.....	Springfield	.....	.....	.....	2.73	93	61	76.6	7.28			
Santa Maria	80	48	64.4	0.00	Strickler Tunnel	.....	.....	.....	1.91	99	69	82.6	1.51		
Santa Monica * ¹	78	50	65.5	0.00	Trinidad	.....	.....	.....	0.44	105	66	83.2	2.96		
Santa Paula	90 ^c	54 ^c	69.7 ^c	0.00	Troutdale	81	20	52.6	1.64	98	64	75.2	4.37				
Santa Rosa * ¹	87	44	64.1	0.15	T. S. Ranch	87 ^c	47 ^c	68.3 ^c	2.07	103	64	83.8	9.76				
Shasta	102	51	74.7	0.06	Twin Lake	.....	.....	.....	1.15	96	65	81.2	3.17		
Sierra Madre	94	49	69.0	0.10	Vilar	.....	.....	.....	1.96	98	66	81.2	4.23		
Sonoma	.....	.....	.....	Wagon Wheel	21	.....	.....	0.69	101	67	83.4	1.17			
S. E. Farallone L. H.	.....	.....	.....	Walton	.....	.....	.....	1.09	99	65	81.2	3.17			
Stockton ^a	92	50	67.2	0.05	Westcliffe	86	37	62.0	0.55	98	66	82.0	6.67				
Summerdale	82	43	60.4	0.02	Wray	100	46	74.6	1.88	102	64	81.4	7.07				
Susanville	94	57	60.6	0.46	Yuma	.....	.....	.....	2.23	94	61	80.0	2.80		
Tehama * ¹	97	66	74.8	0.00	<i>Connecticut.</i>	.....	.....	.....	.....	98	64	78.4	4.10		
Tejon Ranch	96	56	75.9	0.00	Canton	89	43	67.4	3.00	100	68	80.6	8.48				
Templeton * ¹	98	50	62.2	0.00	Colchester	88	45	68.1	4.21	95	61	78.6	4.15				
Thermalito	101	52	72.6	0.18	Falls Village	.....	.....	.....	0.88	98	62	79.0	2.65		
Trinidad L. H.	.....	.....	.....	Greenfield Hill	.....	.....	.....	0.52	97	64	80.0	8.45			
Truckee * ¹	82	46	63.5	0.92	Hartford ^a	86	50	69.4	1.81	94	70	82.0	4.20				
Tulare ^b	106	48	75.6	0.00	Hartford ^b	.....	.....	.....	0.90	101	67	82.4	4.62		
Ukiah	101	41	67.4	0.02	Hawleyville	89	43	69.2	1.19	99	67	82.4	5.19				
Upperlake	98	43	68.6	0.08	Lake Konomoc	.....	.....	.....	2.85	98	67	82.0	4.98		
Upper Mattole * ¹	100	38	66.2	0.22	Middletown	90	44	69.6	1.72	96	68	82.1	3.59				
Vacaville ^a	96	56	69.0	0.16	New London	84	49	66.8	2.53	95	68	81.6	6.03				
Ventura	78	48	63.2	0.00	North Grosvenor Dale	91 ^c	40 ^c	68.6	1.26	94	68	81.6	6.19				
Visalia ^b	88	58	69.2	0.00	Norwall	89	44	69.4	0.37	101	57	83.0	3.54				
Visalia ^a	100	46	73.0	0.00	Southington	86	45	68.4	0.45	99	69	82.0	4.65				
Volcano Springs * ¹	120	80	94.3	0.07	South Manchester	.....	.....	.....	1.38	99	65	80.8	2.74		
Walnut Creek	94	55	69.6	0.00	Storrs	86	45	67.2	2.27	99	66	82.0	5.48				
West Saticoy	.....	.....	.....	Voluntown	88	43	68.2	2.29	103	60	79.6	4.27			
Wheatland	92	48	69.4	0.14	Wallingford	.....	.....	.....	1.02	97	67	81.0	5.38		
Williams * ¹	98	60	75.6	0.00	Waterbury	92	49	70.8	1.03	97	63	80.6	4.80				
Wilmington	85	60	69.1	0.00	West Cornwall	85	47	67.2	1.11	102	66	82.4	6.73				
Wire Bridge * ⁶	98	53	68.2	0.12	West Simsbury	.....	.....	.....	3.79	97	61	77.8	4.41		
Yerba Buena, L. H.	.....	.....	.....	Winsted * ¹	87	48	66.5	.....	101	63	81.2	2.03			
Yreka	90	40	64.6	0.12	Delaware.	.....	.....	.....	.....	100	66	82.0	3.46		
Yuba City * ⁵	86	57	71.1	0.18	Milford	96	60	75.0	2.94	94	59	77.8	3.67				
<i>Colorado.</i>	.....	.....	.....	Millsboro	98	58	73.6	7.68	94	59	83.0	4.28			
Antlers	89	42	67.6	0.99	Newark	94	53	73.5	2.64	95	63	79.2	5.80				
Arkins	.....	.....	.....	Seaford.	96	61	75.6	6.40	98	65	81.9	4.46			
Aspen	.....	.....	.....	District of Columbia.	.....	.....	.....	.....	98	66	81.8	6.68			
Boulder	95	49	70.4	1.81	Distributing Reservoir * ⁶	.....	.....	.....	7.68	100	67	88.6	6.23		
Boxelder	.....	.....	.....	Receiving Reservoir * ⁵	.....	.....	.....	4.18	96	63	78.4	4.46			
Breckenridge	77	28	50.8	1.80	West Washington	96	55	75.8	8.90	98	61	78.4	4.46				
Canyon	99	41	75.7	0.79	Florida.	.....	.....	.....	.....	99	66	81.6	2.81		
Castlerock	92	38	66.6	2.89	Archer.	99	.....	.....	7.85	100	19	58.8	0.34		
Cedaredge	92	40	66.8	1.86	Bartow	97	60	82.7	7.68	94	29	54.1	1.78				
Cheyenne Wells	101	50	75.6	0.55	Brooksville	95	71	82.3	5.78	90	30	68.0	T.				
Clearview * ¹	88	36	52.8	0.68	Clermont	100	64	84.3	11.73	84	26	60.0	1.35				
Colorado Springs	93	46	68.8	0.79	Dalkeith	96	70	81.3	.....	91	37	65.8	0.64			
Cope	102	50	74.2	1.19	De Funik Springs	103	65	81.2	11.80	97	19	54.4	0.45				
Cripple Creek	41	.....	.....	Deland	97	68	80.9	.....	101	26	55.5	0.08			
Crook	102	48	73.8	1.55	Dry Tortugas	96	77	86.1	1.36	98	26	58.6	2.23				
Delta	100	36	70.6	1.78	Earnestville	99	70	83.									

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Idaho—Cont'd.</i>																	
Murray	82	35	56.0	3.61	T.	Tiskilwa	97	52	74.4	1.85		Iowa—Cont'd.	o	o	o	Ine.	Ine.
Oakley	95	34	65.2	1.55		Tuscola	100	52	76.8	1.85		Bussey	.....	.....	.....	3.83	
Ola	96	35	64.4	1.55		Walnut	98	51	73.0	2.85		Carroll	96	51	73.4	5.07	
Paris	91	28	58.6	0.48		Wheaton ¹	96	61	70.8	1.96		Carson	98	54	77.1	1.82	
Payette	98	35	66.0	0.74		Winchester	96	57	76.2	2.95		Cedar Rapids	98	54	77.2	8.04	
Pollock	94	40	62.9	1.69		Winnebago	95	48	72.4	2.57		Centerville	95	56	76.2	4.51	
Priest River	88	40	61.6	8.21		<i>Indiana.</i>						Chariton	94	53	74.4	5.88	
St. Maries	90	39	59.7	2.37	T.	Anderson	98	56	75.8	4.54		Charles City	95	48	73.2		
Saukoria	95	29	63.3	1.10		Angola	90	52	75.0	2.77		Clarinda	100	51	77.0	5.08	
Soldier	91	24	57.2	0.66		Auburn	93	51	72.6	3.78		Clinton	95	52	73.9	8.91	
Swan Valley	90	24	58.8	1.79		Bedford	101	60	79.8	1.71		College Springs	99	57	76.2	4.19	
Weston	94	29	63.2	1.48		Bloomington	97	60	77.1	1.90		Coon Rapids	98	54	74.4	4.06	
Yellow Jacket	.....	.....	.....	0.85		Bluffton	97	52	74.4	2.12		Corning	94	52	75.2	8.99	
<i>Illinois.</i>						Booneville	.....	.....	.....	.....		Council Bluffs	96	59	76.8	6.93	
Albion	97	61	78.2	2.10		Bright	101	58	76.8	4.37		Cresco	98	48	71.0	4.53	
Alexander	101	55	78.5	3.93		Butterville	99	56	76.0	4.49		Cumberland	.....	.....	.....	6.26	
Ashton	98	49	78.8	1.29		Cambridge City	97	54	74.8	4.39		Danville	.....	.....	.....	8.13	
Astoria	94	51	74.0	3.00		Columbia City ¹	93	50	72.6	8.73		Decorah	99	44	72.8	4.51	
Aurora a.	96	54	75.4	1.84		Columbus	99	56	75.2	4.45		Delaware	94	49	72.5	8.27	
Aurora b.	98	58	75.9	1.52		Connersville	97	56	75.1	2.59		Denison	94	53	73.6	8.49	
Bloomington	102	52	77.4	2.15		Delphi	97	51	75.0	3.45		Desoto	97	47	75.7	2.61	
Bushnell	100	54	78.2	4.83		Edwardsville ¹	98	66	79.4	8.86		Diagonal	94	51	73.8	8.20	
Cambridge	98	52	74.2	1.78		Fairmount	98	52	75.6	1.45		Dows	95	48	72.8	2.84	
Carlinville	100	55	77.0	6.48		Farmland	94	53	73.2	1.28		Elkader	99	43	73.9	3.10	
Carlyle	.....	.....	.....	3.83		Fort Wayne	97	58	75.9	6.06		Emerson	.....	.....	.....	4.30	
Charleston	99	57	77.9	1.41		Greencastle	93	60	76.0	2.10		Emmetsburg	.....	.....	.....	3.97	
Chemung	93	48	71.3	8.05		Hannond	92	61	75.5	1.07		Estherville	96	48	71.4	2.89	
Chester	.....	.....	.....	2.29		Hector	95	55	75.8	0.90		Fairfield	95	55	74.0	2.68	
Cisne	97	59	77.5	2.48		Huntington	94	57	77.6	1.64		Fayette	96	44	72.7	2.88	
Coatsburg	98	55	76.6	4.95		Jeffersonville	98	62	78.0	3.94		Fonda	98	52	75.1	2.49	
Cobden	101	63	80.6	1.43		Knightstown	100	56	76.8	3.35		Forest City	96	52	73.6	1.52	
Danville	101	51	76.0	0.57		Kokomo	93	56	73.9	3.71		Fort Madison	94	48	73.0	4.11	
Decatur	100	53	77.5	2.56		Lafayette	95	56	75.6	3.45		Galva	94	51	78.6	8.03	
Dixon	99	58	75.4	1.88		Laporte	101	49	76.0	1.07		Gilman	.....	.....	.....	4.17	
Dwight ¹	95	58	74.6	2.29		Logansport	94	55	74.7	1.19		Glenwood	98	50	77.2	7.19	
Eminham	99	59	77.8	2.35		Madison	98	58	77.0	3.93		Grand Meadow ¹	90	52	71.2	5.86	
Elgin	95	54	73.4	1.89		Marengo	96	57	75.8	4.40		Greene	98	48	75.2	2.68	
Equality	97	61	70.0	1.80		Marion	95	55	74.8	1.65		Grinnell (near)	94	54	73.8	3.61	
Flora	97	60	77.8	2.57		Markle	97	53	74.8	1.10		Griswold	.....	.....	.....	6.58	
Fort Sheridan	96	55	73.8	2.05		Mauzy	98	56	75.0	2.51		Grundy Center	99	48	73.0	3.35	
Friendgrove ¹	96	64	79.3	2.03		Michigan City ¹⁰	90	50	69.8	.....		Guthrie Center	96	52	74.4	4.16	
Galva	98	50	75.2	2.40		Mount Vernon	98	60	76.6	2.94		Hamburg	.....	.....	.....	6.46	
Glenwood ¹	94	60	72.6 ^d	1.46		Northfield	95	54	73.7	2.88		Hampton	100	41	74.2	3.38	
Grafton	.....	.....	.....	3.81		Paoli	95	58	76.8	7.68		Harian	94	51	74.2	4.44	
Grayville	97	65	80.8	1.05		Prairie Creek	95	55	75.2	3.75		Hawkeye	.....	.....	.....	3.83	
Greenville	100	60	78.5	4.73		Princeton	102	58	78.8	2.85		Hedrick	94	52	74.2	3.68	
Grieggville	98	57	77.5	4.48		Richmond	.....	.....	.....	.....		Hopewell	95	55	74.6	8.44	
Halfway	98	68	80.8	1.00		Rockport	99	64	79.7	4.87		Humboldt	96	53	74.2	1.48	
Havana	94	60	77.6	3.26		Rockville	96	57	76.7	1.22		Independence	94	50	72.2	2.55	
Henry	97	50	74.7	1.63		Salem	95	55	75.2	3.75		Indianola	99	55	75.2	3.88	
Hillsboro	100	57	77.5	7.49		Scottsburg	97	61	77.4	8.25		Iowa City	97	58	75.2	2.39	
Joliet	94	54	74.4	1.74		Seymour	98	60	77.8	2.40		Iowa Falls	96	48	74.2	2.57	
Kankakee	100	58	78.8	2.20		Shelbyville	99	61	76.8	3.81		Keosauqua	97	49	75.6	4.05	
Knoxville	97	48	73.6	1.14		South Bend	96	51	74.4	0.66		Knoxville	92	50	75.2	8.48	
Lagrange	93	49	73.0	2.18		Syracuse	91	52	73.7	1.89		Lacona	.....	.....	.....	3.48	
Lanarpe	97	55	75.6	4.82		Terre Haute	98	60	78.6	1.74		Lamoni	98	53	74.0	3.87	
Lanark	95	44	72.4	1.67		Topeka	88	52	71.3	2.02		Lansing	96	47	71.9	5.00	
Loami	.....	.....	.....	3.21		Valparaiso	92	54	74.4	T.		Larrabee	93	48	72.4	3.57	
McLeansboro	97	62	78.6	3.14		Vevay	100	58	79.3	6.85		LeClaire	.....	.....	.....	3.00	
Martinsville	95	59	77.4	2.70		Vincennes	99	54	79.5	4.08		Lemars	92	50	73.4	5.51	
Martin	98	49	74.8	2.19		Washington	101	60	78.6	6.87		Lenox	92	55	74.8	3.58	
Mascoutah	99	58	77.8	2.12		Winamac	.....	.....	.....	.....		Logan	96	55	75.8	5.90	
Mattoon	96	60	78.4	4.10		Worthington	100	58	78.0	1.30		Maple Valley	.....	.....	.....	2.77	
Minonk	98	50	74.6	1.74		Hartshore	106	65	90.6	0.80		Maquoketa	98	49	72.6	2.89	
Monmouth	98	50	75.0	3.27		Healdton	110	65	88.8	0.00		Marshall	95	51	75.4	4.62	
Monticello ⁵	99	60	77.8	1.00		Kemp	118	72	92.8	0.00		Mason City	96 ⁴	454	71.0	2.80	
Morrisonville	95	53	75.6	3.84		Lehigh	110	68	87.5	0.18		Melrose	.....	.....	.....	4.77	
Mount Carmel	.....	.....	.....	1.39		Muscogee	105	65	83.4	1.45		Monticello	95	55	76.2	3.67	
Mount Pulaski	101	56	78.6	3.35		Ryan	107	72	88.2	0.00		Moocar	99	55	76.2	1.75	
Mount Vernon	100	58	76.6	2.40		Sapulpa	106	65	84.4	0.80		Mountsyr	95	56	75.2	3.12	
New Burnside	101	60	81.2	1.42		South McAlester	.....	.....	.....	.....		Mount Pleasant	97	50	75.2	2.98	
Oliney	96	60	78.6	2.92		Tahlequah	.....	.....	.....	.....		Mount Vernon ^b	96	51	75.4	2.49	
Oswego	96	51	74.8	2.27		Tulsa	60	.....	.....	.....		Murray	.....	.....	.....	4.05	
Ottawa	98	49 ^c	74.2 ^d	8.02		Wagoner	.....	.....	.....	.....		New Hampton	92	48	73.5	3.44	
Palestine	98	57	76.6	3.12		Webbers Falls	.....	.....	.....	.....		Newton	93	52	74.0	4.51	
Pana	100	55	77.0	2.44		Iowa.	.....	.....	.....	.....		North McGregor	96	52	73.6	2.84	
Paris	98	56	76.6	3.09		Afton	96	54	75.4</td								

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Iowa—Cont'd.	○	○	○	Ins.	Ins.	Kansas—Cont'd.	○	○	○	Ins.	Ins.	Maine—Cont'd.	○	○	○	Ins.	Ins.
Sheldon	93	46	71.6	3.97		Wamego* ¹	100	61	77.8	2.60		Calais	91	33	64.4	0.78	
Sibley	96	46	71.8	2.30		Winfield	106	63	88.0	1.56		Cornish* ¹	91	49	67.1	2.13	
Sligourney	99	49	75.2	4.86		Kentucky.						Cumberland Mills	98°	45°	67.8°	1.77	
Sioux Center	94	54	73.6	3.72		Alpha* ²						Fairfield	86	45	55.7	0.46	
Spencer	94	50	73.2	4.21		Bardstown	98	58	78.6	8.26		Farmington	82	38	65.8	1.91	
Spirit Lake	96	53	73.4	3.23		Blandville	95	64	79.9	1.47		Flagstaff	88	32	63.5	0.38	
Storm Lake	92°	51°	78.4°	2.01		Bowling Green ^b	98	66	80.2	2.61		Gardiner	88	46	68.5	1.08	
Stuart	96	54	76.2	2.90		Burnside						Lewiston	97	49	69.0	1.16	
Tara	100	55	76.1	1.00		Canton* ¹	98	65	80.4	2.66		Mayfield	88	41	64.6	1.05	
Thurman	95	52	76.1	10.45		Carrollton	99	58	80.0	2.37		North Bridgton	85	45	67.8	1.86	
Toledo	99	47	74.6	3.98		Catlettsburg	98	61	76.2	3.38		Orono	88	40	66.4	T.	
Villisca	98	50	75.8	8.31		Earlington	99	59	80.0	5.26		Petit Menan* ¹	82	44	66.2	0.64	
Vinton* ¹	94	56	74.8	2.55		Edmonton	91	59	76.6	1.54		Rumford Falls	82	44	66.2	0.25	
Wapello	100	55	75.4	3.39		Ensor	98	62	77.8	4.80		Winslow	88	42	66.8	0.25	
Washington	95	50	74.1	2.61		Eubank	95	54	75.0	1.32		Maryland.					
Washita				3.59		Falmouth						Bachmans Valley	94	46	72.2	4.89	
Waterloo	95	50	73.6	3.59		Fords Ferry	99	57	79.4	3.80		Boottcherville	101	43	74.4	0.75	
Waverly	98	53	73.8	3.68		Frankfort	95	60	78.2	3.23		Boonsboro a	98	49	75.6	4.44	
Westbend* ¹	94	50	71.4	2.04		Georgetown	98	61	77.8	.....		Cambridge	92°	62°	75.8°	5.51	
Westbranch	94	55	75.8	3.17		Greensburg	99	51	78.0	1.26		Charlotte Hall ^c	97	57	75.7	5.58	
Whitten* ¹	94	58	73.7	2.78		Henderson	98	63	79.2	4.67		Chase	95	54	73.6	2.89	
Wilton Junction	94	52	74.4	2.73		Hopkinsville	97	62	79.8	8.90		Chestertown	91	57	74.0	4.80	
Winterset	96	52	75.0	3.27		Irvington	93	59	77.3	2.29		Chewsville	99	48	74.2	3.85	
Woodburn				8.14		Jackstown	100	58	75.4	3.95		Clear Spring	97	52	73.6	3.45	
Kansas.						Leitchfield	98	59	76.6	8.78		Coleman	95	57	74.3	5.75	
Abilene	108	58	80.8	1.16		Loretto	96	54	76.6	8.27		Cumberland	98	54	77.6	1.28	
Achilles				1.24		Marrowbone	95	58	77.2	1.86		Darlington	91	56	73.0	3.75	
Altoona* ³	100	66	78.6	2.18		Maysville	102	54	77.2	5.82		Deerpark	90	41	66.6	2.06	
Anthony				1.00		Middleboro	95	52	75.8	4.56		Easton	95	57	74.6	4.25	
Atchison a	98	60	78.6	2.89		Mount Hermon	91	60	76.4	3.01		Ellicott City	95	58	72.6	4.40	
Atchison b* ¹	100	66	79.8	3.24		Mount Sterling	94	57	76.4	3.35		Fallston	90	56	73.0	4.56	
Augusta	108	60	81.6	4.75		Owensboro	98	61	79.2	3.45		Frederick	97	52	75.2	3.23	
Baker	98	60	79.0	3.60		Paducah c						Frostburg	99	50	72.2	0.96	
Burlington	99	57	80.1	2.26		Paducah b	102	66	83.6	2.91		Grantsville	90	41	68.1	2.57	
Campbell	101	58	78.9	2.91		Princeton	99	61	80.8	3.00		Greatfalls	98	55	74.1	3.13	
Centropolis* ¹	104	64	78.0	4.20		Richmond	95	59	76.8	3.23		Greenspring Furnace	96	52	77.6	3.23	
Chautau	98	59	81.8	0.28		Russellville	98	62	78.4	2.74		Hancock	101	45	75.4	3.13	
Colby	107	44	77.4	0.19		St. John	98	57	76.0	4.61		Harney					
Columbus	98	58	80.0	2.31		Scott	97	57	76.2	5.25		Jewell	92	59	78.9	5.97	
Coolidge	101	47	76.6	3.05		Shelby City	97	55	76.2	3.89		Johns Hopkins Hospital	97	54	75.1	4.16	
Cunningham	101	60	82.5	2.20		Shelbyville	100	57	79.1	2.44		Laurel	98	54	74.7	5.46	
Dresden	102	55	77.2	1.31		Vanceburg	98	55	74.2	4.90		McDonogh	98	56	74.2	2.97	
Ellinwood	105	60	80.8	1.88		Williamsburg	97	62	79.7	2.75		Mardela Springs	92 ^b	59	74.0 ^b	5.66	
Emporia	97	64	79.1	4.85		Louisiana.						Mount St. Marys Coll.	99	53	75.2	3.83	
Englewood.	109	58	84.1	0.39		Alexandria	103	68	84.8	3.23		New Market	97	55	75.0	2.57	
Eskridge.	100	62	80.0	2.79		Amitie	101	68	84.4	7.58		Pocomoke City	94	55	75.1	3.97	
Eureka				2.84		Bastrop	104	67	85.6	1.50		Princess Anne	92	56	74.0	2.48	
Eureka Ranch	105	52	81.3	0.51		Baton Rouge	99	68	83.8	2.84		Queenstown	94 ^a	55 ^a	73.7 ^a	6.88	
Fall River	102	57	81.5	1.11		Calhoun	102	65	88.8	2.23		Rockhall a	94	54	74.4	5.44	
Fanning	101	45	76.4	7.78		Cheneyville	103	60	84.5	5.30		Rockhall b	98	54	74.0	5.48	
Fort Scott	106	58	84.0	1.66		Clinton	100	67	81.8	5.31		Sandy Point	102	57	77.1	5.00	
Frankfort	101	53	78.1	2.15		Como	101	66	88.6	0.81		Sharpsburg	95	50	73.8	3.47	
Garden City	104	53	80.4	1.00		Covington	98	67	88.2	9.73		Smithsburg a	96	49	74.0	5.06	
Garfield				0.44		Donaldsonville	96	68	81.4	3.73		Smithsburg b	98	52	75.0	5.87	
Gibson	106	52	80.0	1.48		Elm Hall	97	67	88.2	2.17		Solomons	93	64	77.8	3.48	
Gove* ¹	104	62	82.8	0.51		Emilie	96	64	80.5	4.50		Sudlersville	92	55	73.2	5.15	
Grenola	104	59	80.7	4.22		Farmerville	100	67	88.0	2.37		Sunnyside	89	43	67.8	2.47	
Halstead	105	60	81.6	2.04		Franklin	99	68	82.8	6.44		Takoma Park	95	53	75.4	7.90	
Hays	107	54	80.0	0.55		Grand Coteau	103	67	82.9	5.28		Taneytown					
Hutchinson	102	64	81.4	1.62		Hammond	100	67	88.0	8.70		Van Bibber	92	66	78.6	6.48	
Independence	102	64	82.4	4.04		Houma	97	67	88.3	5.70		Westernport	91	45	71.7	1.70	
Lawrence	98	62	78.3	3.58		Jeanerette	100	65	81.9	7.90		Woodstock	90	52	73.8	4.76	
Lebanon	100 ^a	79.2 ^a	2.00			Jennings	100	67	82.0	5.76		Massachusetts.					
Lebo	100	61	80.6	2.07		Lafayette	103	66	82.8	7.27		Adams	91	42	67.2	2.08	
Macksville	105	52	80.8	0.63		Lake Charles	100	67	84.4	4.66		Attleboro					
McPherson	106	58	81.7	2.60		Lake Providence	99	68	84.0	1.85		Amerster	89	41	67.4	1.30	
Manhattan b	108	59	80.4	2.44		L'Argent	98	68	88.4	2.04		Bedford	86	45	66.7	3.43	
Manhattan c	102	55	80.3	2.35		Lawrence	98	70	88.8	9.15		Bluehill (summit)	87	49	67.4	1.27	
Marion	104	55	80.6	2.65		Liberty Hill	106	65	85.9	1.92		Cambridge	92	45	68.7	2.59	
Medicine Lodge	109	61	88.8	0.29		Mansfield	104	61	84.5	1.77		Chestnut Hill	92	44	69.2	3.81	
Minneapolis	106	56	81.5	1.82		Melville	98	64	88.8	6.28		Cohasset					
Moranstown	99	61	81.1	0.73		Minden	105	64	84.8	3.28		Concord	92	41	66.8	3.07	
Mount hope* ¹	102	67	81.9	3.48		Monroe	103	68	84.5	2.94		East Templeton ^a	90	45	67.2	1.15	
Ness City	105	62	82.9	0.67		Montgomery	105	66	86.0	0.95		Fall River	86	44	70.2	1.73	
Newton	105	65	88.4	1.81		New Iberia	97	68	81.8	9.15		Fiske Dale					
Norwich	108	62	88.6	1.87		Oakridge	105	68	85.0	2.17		Fitchburg a ¹	89	53	67.0	2.87	
Oberlin				2.49		Ruston	104	64	84.8	1.76		Fitchburg b	91	44	68.5	2.8	

TABLE II.—Climatological record of voluntary and other cooperating observers.—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Massachusetts—Cont'd.</i>	0	0	0	In.	In.	<i>Michigan—Cont'd.</i>	0	0	0	In.	In.	<i>Mississippi—Cont'd.</i>	0	0	0	In.	In.
South Clinton	31	18	24.5	3.18	—	St. Johns	95	45	71.4	0.08	—	Brookhaven	101	64	83.4	3.95	—
Springfield Armory	91	48	70.0	1.30	—	St. Joseph	93	50	72.0	1.01	—	Canton	101	65	82.4	2.79	—
Sterling	—	—	—	3.54	—	Sidnaw	90	37	67.8	1.30	—	Columbus a	—	—	—	6.26	—
Taunton c	86	40	66.8	1.79	—	Somerset	98	45	70.4	1.67	—	Columbus b	95	70	82.0	6.16	—
Webster	—	—	—	1.84	—	South Haven	98	45	69.8	1.07	—	Corinth	104	68	82.2	1.95	—
Westboro	91	44	69.6	1.47	—	Stanton	97	43	70.6	0.20	—	Crystal Springs	101	64	83.2	2.50	—
Weston	89	41	67.1	2.04	—	Thomaston	98	43	70.8	2.28	—	Edwards	99	67	83.6	5.84	—
Williamstown	88	41	66.2	1.60	2.91	Thornville	97	44	71.4	2.38	—	Fayette	99	65	82.4	5.60	—
Winchendon	—	—	—	—	—	Thunder Bay Island * 10.	86	55	67.2	—	—	Fayette (near) *	99	70	83.7	—	—
<i>Michigan.</i>	—	—	—	—	—	Traverse City	95	47	69.6	0.94	—	Greenville a	97	67	82.6	0.83	—
Adrian	95	49	71.8	2.10	—	Vandalia	96	52	73.4	0.89	—	Greenville b	99	69	84.2	0.87	—
Agricultural College	97	41	71.4	0.70	—	Vassar	97	37	68.0	0.37	—	Greenwood	97	68	82.1	2.78	—
Allegan	95	49	69.6	0.00	—	Vermilion Point * 10.	88	42	61.9	—	—	Hattiesburg	96	68	83.8	1.84	—
Alma	95	49	69.6	0.47	—	Wasepi	91	48	70.8	2.58	—	Hazlehurst	—	—	—	0.80	—
Ann Arbor	99	46	72.5	0.51	—	Waverly	94	51	74.8	0.82	—	Hernando	97	60	80.6	4.46	—
Arbela	96	38	68.0	0.45	—	West Harrisonville	95	40	67.0	1.37	—	Holly Springs	98	68	81.8	3.68	—
Badaxe	94	48	68.9	1.04	—	Wetmore	98	80	68.8	3.53	—	Jackson	101	68	84.0	1.89	—
Baldwin	95	38	67.8	1.58	—	White Cloud	96	37	69.6	0.10	—	Lake	96	63	79.8	4.05	—
Ball Mountain	97	41	71.8	0.12	—	Ypsilanti	94	48	71.2	0.58	—	Leakesville	101	65	82.7	2.38	—
Baraga	92	—	—	4.22	—	<i>Minnesota.</i>	—	—	—	—	—	Logtown	97	68	82.2	5.48	—
Battle Creek	98	48	72.2	3.13	—	Ada	86	39	66.6	4.48	—	Louisville	96	66	81.2	5.81	—
Bay City	94	47	69.4	0.22	—	Albert Lea	96	51	72.4	3.40	—	Macon	102	63	82.8	2.46	—
Berlin	96	38	68.4	0.92	—	Alexandria	91	44	67.8	9.86	—	Magnolia	98	65	82.6	5.21	—
Berrien Springs	96	48	73.4	0.80	—	Ashby	90	45	69.0	8.57	—	Natchez	100	69	84.6	1.60	—
Big Point Sable * 10.	86	54	67.9	—	Beardsley	91	40	69.1	11.03	—	Okolona	104	62	83.8	1.47	—	
Big Rapids	94	40	68.6	1.11	—	Bermidji	88	38	65.4	5.76	—	Palo Alto	98	62	82.0	5.43	—
Birmingham	97	43	71.6	0.07	—	Bird Island	95	48	71.0	5.44	—	Port Gibson	100	65	83.8	4.00	—
Boon	93	35	64.4	1.15	—	Blooming Prairie	95	46	70.8	4.00	—	Stone Mountain *	96	70	82.2	—	—
Calumet	93	47	64.4	4.88	—	Brainerd	89	41	67.6	9.66	—	Thornton	—	—	—	1.10	—
Carsonville	97	39	68.8	T.	—	Caledonia	91	51	69.8	6.26	—	Tupelo	—	—	—	3.02	—
Charlevoix	92	45	69.2	0.50	—	Camden	93	46	69.0	4.11	—	University	99	66	81.8	3.16	—
Cheboygan	93	35	68.8	2.40	—	Campbell	92	37	67.8	5.67	—	Water Valley *	104	68	80.8	1.91	—
Clinton	96	45	72.6	0.56	—	Collegeville	93	50	69.7	4.80	—	Waynesboro	96	65	81.3	6.54	—
Coldwater	94	46	70.3	1.46	—	Crookston	86	40	65.7	8.32	—	Westpoint	107	68	84.8	—	—
Eagle Harbor	92	45	64.4	4.19	—	Deephaven	95	48	70.8	4.55	—	Windham	93	64	82.0	8.68	—
East Tawas	95	48	68.1	1.01	—	Detroit City	86	36	65.4	3.86	—	Woodville	100	65	82.7	6.46	—
Eloise	97	48	72.3	0.57	—	Faribault	95	52	71.1	3.96	—	Yazoo City	105	65	84.8	2.69	—
Ewen	97	40	63.6	0.60	—	Farmington	96	48	70.6	4.73	—	<i>Missouri.</i>	—	—	—	—	—
Fairview	98	49	72.0	0.71	—	Fergus Falls	89	46	67.9	6.08	—	Appleton City	107*	61	80.1	2.00	—
Fitchburg	95	38	69.9	0.06	—	Glenoe	93	48	70.4	3.50	—	Arthur *	—	69	76.6	1.00	—
Flint	96	38	68.8	0.04	—	Grand Meadow	98	48	72.1	5.37	—	Avalon	98	58	76.8	4.35	—
Frankfort	95	42	66.4	—	Granite Falls	95	48	70.8	4.55	—	Bethany	100	51	75.8	3.11	—	
Gladwin	94	39	67.4	0.90	—	Hallow	88	33	64.0	2.47	—	Birchtree	98	60	78.6	2.47	—
Grand Rapids	97	48	73.4	0.18	—	Lake City	97	48	72.3	5.14	—	Boonville	—	—	—	3.65	—
Grape	98	49	73.7	1.25	—	Lake Jenne	94	46	71.2	4.05	—	Brunswick	95	60	76.4	3.25	—
Grayling	94	34	67.5	1.35	—	Lakeside	94	46	69.9	3.92	—	Carrollton	98	62	78.6	5.21	—
Hanover	97	43	72.6	1.09	—	Lake Winnibigoshish	87	50*	64.7	6.03	—	Conception	94	60	76.8	3.59	—
Harbor Beach	94	45	67.8	0.19	—	Leech Lake	90	41	66.4	8.64	—	Cook Station	101	53	78.2	1.67	—
Harrison	92	43	67.9	1.44	—	Leroy	92	48	72.2	5.31	—	Cowgill *	98	62	79.4	3.96	—
Harrisonville	92	43	66.2	1.64	—	Long Prairie	92	41	67.5	9.35	—	Darksville	99	60	76.9	2.60	—
Hart	97	44	71.6	0.53	—	Luverne	92	49	70.8	4.23	—	East Lynne *	104	60	75.4	3.04	—
Hastings	98	41	71.0	0.19	—	Lynd	97	46	71.2	4.43	—	Edghill *	94	62	78.4	3.63	—
Hayes	98	42	67.3	T.	—	Mapleplain	98	52*	70.6	3.13	—	Elidon	98	56	78.0	4.29	—
Highland Station	—	—	—	0.89	—	Milaca	94	45	68.0	6.66	—	Elmira	99	58	79.0	4.01	—
Hillsdale	93	45	70.9	1.26	—	Milan	94	48	70.0	6.80	—	Fairport	—	—	—	2.68	—
Holland *	99	53	71.6	—	Minneapolis a	96	53	71.4	3.45	—	Fayette	99	59	77.6	3.93	—	
Humboldt	98	30	61.5	5.88	—	Minneapolis b	95*	51	70.6	8.20	—	Fulton	—	—	—	3.47	—
Ionia	97	41	71.4	0.01	—	Minnesota City *	93	56	72.3	4.70	—	Galena	—	—	—	1.38	—
Iron Mountain	98	42	66.9	3.97	—	Montevideo	96	45	70.2	—	—	Gallatin *	98	56	77.7	3.80	—
Iron River	99	34	64.8	3.66	—	Morris	94	46	69.6	11.88	—	Gayoso	100	62	81.9	1.88	—
Ivan	96	48	68.2	2.50 ^b	—	Mount Iron	84	44	64.3	4.56	—	Glasgow	97	60	78.2	3.68	—
Jackson	97	44	72.4	0.38	—	Newfolden	85	37	68.5	2.42	—	Gorin	—	—	—	2.36	—
Jeddo	98	43	69.6	1.28	—	New London	94	48	68.2	4.36	—	Halfway	101	55	81.0	1.59	—
Kalamazoo	98	52	73.0	1.05	—	New Richland *	94	58	72.2	—	—	Harrisonville	99	58	79.4	3.11	—
Lake City	92	40	68.2	0.50	—	New Ulm	102	50	73.6	3.78	—	Hazlehurst	—	—	—	3.88	—
Lansing	95	45	71.6	0.33	—	Park Rapids	88	43	64.4	8.59	—	Hermann	—	—	—	4.06	—
Lapeer	95	34	67.8	0.50	—	Pine River	91	43	65.1	10.32	—	Houston	101	55	78.8	1.32	—
Lathrop	99	38	64.0	8.14	—	Pipestone	94	49	66.6	3.66	—	Houstonia (near)	—	—	—	6.56	—
Ludington	90	45	67.5	1.26	—	Pleasant Mounds	94	53	71.6	4.33	—	Irena	—	—	—	3.10	—
Luzerne	95	30	64.4	1.64	—	Pogekama Falls	89	38	64.0	8.18	—	Ironon	101	34	79.3	2.54	—
Mackinaw	98	40	66.6	2.37	—	Reeds	—	—	—	—	—	Jackson *	92	68	79.0	1.16	—
Madison	94	51	72.4	1.78	—	Rolling Green	92	53	71.2	2.91	—	Jefferson City	104	59	79.3	3.96	—
Manistee	92	40	66.7	1.60	—	Roseau	85	33	61.9	1.28	—	Kidder	96	56	76.9	3.49	—
Manistique	92	38	64.2	1.82	—	St. Charles	96	40	70.8	3.12	—	Lamar	104	57	82.7	1.69	—

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Missouri</i> —Cont'd.																	
Phillipsburg ^a	104	68	79.8	1.87	In.	Dawson	103	54	78.0	4.76	In.	Turlington	97	64	75.7	5.37	
Pickering ^a	101	60	77.0	4.09		Eden	103	54	59.7			Valentine	96	48	74.6	2.59	
Poplarbluff	98	62	81.4	1.88		Edgar ^a	104	54	84.2	1.35		Valparaiso	97	45	74.2	3.64	
Potosi	97	49	74.2	1.83		Elba	.....	.....	5.36			Wakefield	97	45	74.2	3.31
Princeton	100	54	78.6	3.93		Ericson	.....	.....	2.49			Wallace	.....	.....	0.60	
Rhine Island	100	58	78.6	2.28		Ewing	.....	.....	3.78			Wauneta	.....	.....	1.35	
Rolla	.....	.....	1.6			Fairbury	104	54	77.4	2.98		Weeping Water ^a	96	51	72.5	3.50
St. Joseph	.....	.....	3.17			Fairfield	106	49	79.5	0.85		Westpoint	94	49	76.4	3.96
Sarcoxie ^a	104	66	79.8	1.90		Fairmont	103	47	77.4	2.88		Whitman	.....	.....	4.58	
Sedalia	101	59	78.2	4.10		Fort Robinson	98	44	71.4	1.55		Wilber ^a	104	56	74.9	6.61	
Seymour	99	60	78.6	2.26		Franklin	104	45	78.0	2.65		Willard	100	46	78.1	1.24	
Sheibina	.....	.....	5.70			Fremont	96	50	74.2	3.78		Wilsonville ^a	.....	.....	1.45	
Sikeston	100	62	80.6	3.73		Geneva	100	48	74.5	2.05		Wilsner	.....	.....	2.59	
Steffenville	94	58	76.6	6.17		Genoa	99	50	75.6	4.62		Wymore ^a	96	60	77.5	5.54	
Stellada	100	61	79.2	8.74		Gering	97	48	71.0	2.34		York ^a	101	55	76.4	2.64	
Sublett	94	55	75.7	5.00		Gordon	.....	.....	2.40			<i>Nevada</i>.	.....	.....	
Trenton	.....	.....	4.06			Gothenburg	103	42	73.3	1.98		Battle Mountain ^a	95	29	70.0	0.81
Unionville	103	58	80.1	4.27		Grand Island ^a	.....	.....	3.78			Beowawe ^a	98	50	64.6	.....
Vichy	102	64	80.6	3.86		Grand Island ^b	103	43	76.5	3.78		Candelaria	91	41	66.6	1.36	
Warrenton	101	60	79.1	3.26		Grand Island ^c	100	48	77.5	2.64		Carlin ^a	90	45	66.5	0.35	
Wheatland	.....	.....	1.45			Greeley	.....	.....	3.25			Carson City	87	35	61.0	0.65
Willow Springs	100	61	80.1	8.13		Halgler	.....	.....				Clover Valley	.....	.....	1.17	
Wylie	99	60	80.6	1.79		Hartington	98	46	73.2	3.10		Cranes Ranch	.....	.....	1.60	
Zeitonia	100	59	80.6	1.98		Harvard	99	50	76.6	3.84		Elko ^a	92	38	57.4	1.95	
<i>Montana</i>.	.....	.....				Hastings ^a	97	54	76.4	3.51		Elko (near)	89	30	60.4	8.10
Adel	82	27	54.4	0.71		Hayes Center	.....	.....	2.18			Ely	88	32	61.4	1.50
Billings	92	44	67.3	T.		Hay Springs	101	42	71.4	1.47		Empire Ranch	96	34	68.4	0.28	
Boulder	84	33	57.2	1.71		Hebron	99	54	76.9	2.43		Fenelon ^a	.....	.....	0.60	
Butte	78	38	58.6	2.35	T.	Hickman	.....	.....	3.80			Golconda ^a	86	36	60.2	0.50
Canyon Ferry	87	43	62.8	1.85		Hooper ^a	92	53	74.7	4.95		Halleck ^a	98	34	60.2	0.25	
Chinook	88	40	62.4	2.41		Hubbard	.....	.....	4.10			Hawthorne ^a	89	45	68.2	0.23
Columbia Falls	86	31	57.2	3.44		Imperial	107	40	75.8	0.93		Hot Springs	.....	.....	T.	
Corvallis	88	35	63.8	0.12		Johnstown	.....	.....	7.11			Humboldt ^a	85	46	68.2	0.18
Crow Agency	93	40	66.5	0.71		Kearney	.....	.....	5.10			Lee	.....	.....	1.41	
Dearborn Canyon	82	36	57.0	1.42		Kennedy	97	31	70.6	5.19		Lewers Ranch	85	33	60.9	1.21	
Deer Lodge	88	29	58.3	.....		Kimball	.....	.....	4.42			Los Vegas	98	47	71.4	0.00
Dell	88	31	58.0	0.04		Kirkwood ^a	95	52	70.4	6.58		Lovelock ^a	87	55	68.9	0.00	
Fort Benton	93 ^b	41 ^b	63.1 ^b	0.76		Lexington	98	27	78.6	2.39		Martins	89	33	58.5	0.73	
Fort Keogh	98	43	70.0	0.91		Lincoln ^b	97	54	77.0	2.51		Mt. Pleasant City ^a	94	38	66.4	0.00	
Fort Logan	84	34	57.2	1.00		Lincoln ^d	99	53	78.0	2.18		Monitor Mill	89	40	62.0	1.56	
Glasgow	93	40	66.0	0.25		Lodgepole	98	43	71.2	0.55		Palisade ^a	92	45	65.4	1.17	
Glenclive	98	44	69.0	0.70		Loup ^a	100	40	76.0	3.11		Palmetto	89	32	61.2	0.96	
Glenwood	84	34	57.8	2.08		Lynch	99	43	73.0	9.35		Reno State University	85	38	62.7	1.37	
Great Falls	87	41	62.3	1.10		Lyons	.....	.....	2.90			Nodaville	94	40	60.4	0.75
Kipp	90	31	58.6	2.60		McCook	.....	.....	2.90			Tecoma ^a	95	40	68.2	T.
Manhattan	85	33	59.8	0.55	T.	Madison	95	47	74.0	3.23		Toano ^a	90	45	65.1	T.	
Martinsdale	91	34	60.0	0.82		Madrid ^a	102	44	76.6	0.99		Tuscarora	88	31	59.5	0.80	
Marysville	81	35	57.0	0.57		Marquette	.....	.....	2.56			Tybo	.....	.....	2.32	
Missoula	91	39	61.2	1.98		Merriman	.....	.....	0.10			Verdi ^a	92	45	62.2	1.60
Ovando	89	26	54.8	1.19		Minden ^a	100	45	76.4	2.89		Wadsworth ^a	96	38	60.6	0.05	
Parrot	85	38	61.2	1.32		Minden ^b	.....	.....	2.41			Well	88	20	59.8	0.56
Plains	86	40	59.8	0.07		Monroe	.....	.....	4.80			New Hampshire	.....	.....	
Poplar	95	43	68.2	0.35		Nebraska City ^a	.....	.....	5.50			Alstead ^a	87	45	70.9	1.94
Red Lodge	88	32	59.4	.....		Nebraska City ^c	99	52	76.2	4.97		Berlin Mills	91	35	66.7	0.76
Ridge	96	38	66.3	1.39		Nemaha ^a	105	62	77.8	5.80		Bethlehem	87	41	65.0	1.08	
St. Pauls	87	36	61.6	1.39		Nesbit	97	40	71.2	2.70		Brookline	93	40	66.9	2.30	
Troy	90	34	58.6	2.30		Norfolk ^b	96	44	78.8	2.98		Claremont	97	37	69.2	2.43	
Utica	84	36	59.8	1.31		North Loup	.....	.....	3.50			Concord	91	38	66.9	1.98
Wibaux	86	42	64.8	1.53		Oakdale	100	48	74.8	2.18		Durham	93	45	66.6	1.00	
Yale	86	34	61.0	0.14		Odell	.....	.....	4.84			Grafton	91	33	68.9	1.48
<i>Nebraska</i>.	.....	.....				O'Neill	99	42	71.8	4.02		Hanover	94	37	66.6	8.61
Agee ^a	96	54	71.7	6.95		Ord	.....	.....	2.08			Keene	90	37	66.9	1.78
Albion	95	43	73.6	3.76		Osceola	.....	.....	3.57			Littleton	90	40	65.0	0.07
Alliance	.....	.....	1.70			Ough	.....	.....	2.08			Nashua	94	42	68.5	2.26
Aima ^a	102	49	76.2	0.74		Palmer ^a	.....	.....	3.29			Newton	98	39	65.8	1.07
Ansley	99	38	73.8	3.28		Palmyra	.....	.....	4.72			North Conway	98	39	65.8	2.35
Arapaho	.....	.....	0.55			Paxton	.....	.....	1.87			Peterboro	91	36	65.4	2.57
Arborville ^a	104	60	76.3	2.17		Plattsmouth ^b	.....	.....	3.35			Plymouth	93	37	67.2	2.87
Ashland ^a	97	53	76.6	4.81		Pleasant Hill	.....	.....	4.36			Sanbornton	91	40	66.0	1.60
Ashland ^b	100	56	77.6	4.49		Ravena ^a	98	40	74.8	5.33		Stratford	99	35	66.2	0.67	
Ashton	.....	.....	2.89			Ravena ^b	.....	.....	4.62			Warner	.....	.....	1.60	
Auburn	99	50	77.2	5.28		Redcloud ^a	.....	.....	2.29			New Jersey	.....	.....	
Aurora ^a	104	51	78.0	2.63		Republican ^a	98	56	76.8	0.70		Asbury Park	89	56	71.2	3.33	
Bartley	.....	.....	1.55			Rulo	.....	.....	8.00			Bayonne	95	58	73.8	4.66
Beatrice	98	54	76.4	4.16		St. Libory	.....	.....	3.21			Belvidere	95	43	70.4	5.91
Beaver City	107	42	78.4	1.45		St. Paul	.....	.....	5.55			Bergen Point	93	56	72.0	5.88
Bellevue	.....	.....	5.48			Salem ^a	98	60	76.7	5.55		Beverly	95	51	74.0	4.40
Benedict	.....	.....	4.50			Santee	104	48	75.5	4.80		Billingsport ^a	92	48	69.0	5.14
Benkelman	.....	.....	2.73			Sargent	.....	.....	3.71			Boonton	94	45	69.7	2.81
Blair	95	54	74.3	6.18		Schuyler	.....	.....</							

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.									
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.								
New Jersey—Cont'd.	°	°	°	Ins.	3.20	New York—Cont'd.	°	°	°	Ins.	1.76	North Carolina—Cont'd.	°	°	°	Ins.	Ins.								
Hightstown	53	53	53	3.20		Easton	99	45	71.8	3.18	Goldsboro	97	63	78.6	5.37										
Imaystown	56	53	74.4	3.80		Elmira	99	51	71.0	2.75	Greensboro	96	63	77.5	1.42										
Lambertville	56	48	73.7	4.37		Fayetteville	98	51	71.0	2.75	Greenville	95	65	78.7	6.54										
Lebanon				4.35		Fleming	98	45	69.0	1.80	Henderson	96	63	77.9	1.86										
Moorestown	94	52	72.8	5.82		Fort Niagara	98	45	69.0	1.80	Hendersonville	94	56	74.4	5.40										
Mount Pleasant				5.98		Franklinville	95	36	67.0	1.54	Horse Cove	92	57	78.8	6.92										
Newark	94	51	71.8	4.92		Fulton	91	40	68.8	1.91	Lenoir	92	63	76.6	5.71										
New Brunswick	95	50	74.2	4.39		Garrattsville	92	46	70.7	1.95	Linville	82	47	68.8	5.60										
Newton	97	44	71.2	3.30		Glens Falls	94	39	68.2	1.86	Littleton	97	58	78.4	2.73										
Ocean City	68	54	70.8	4.64		Gloversville	94	43	69.8	1.37	Louisburg	97	61	78.2	3.49										
Oceanic	87	58	71.7	2.16		Greenwich	93	43	69.8	1.37	Lumberton	97	67	80.6	3.81										
Paterson	95	53	73.7	2.79		Haskinville					Man				2.05										
Perth Amboy	94	54	73.1	4.14		Hemlock	91	42	70.2	0.95	Marion	100	59	77.8	5.64										
Plainfield	94	47	72.0	3.40		Honeymead Brook	88	45	68.4	1.81	Marshall	92	51	74.6	3.43										
Port Norris	94	53	73.4	2.97		Hopewell	93	41	70.8	0.93	Mocksville	100	64	78.8	1.57										
Rancocas				4.92		Humphrey	93	47	70.2	1.26	Moncure	95	65	78.8	2.56										
Rivervale	91	43	70.8	3.25		Ithaca	98	43	71.4	2.81	Monroe	98	63	79.2	2.97										
Roseland	94	45	69.9	4.15		Jamestown	88	47	69.1	2.75	Morganton	99	59	78.2	4.14										
Salem	99	51	74.4	7.98		Keene Valley	91	37	64.3	1.45	Mountairy	95	58	75.2	4.05										
Somerville	97	49	73.6	3.25		King Station					Mount Pleasant	98	64	80.3	2.19										
South Orange	91	52	71.4	5.04		Lake Hill	86	42	66.1	2.19	Murphy				3.09										
Staffordville				6.86		Liberty	90	48	67.6	3.35	Newbern	100	61	80.0	7.61										
Toms River	96	47	71.2	2.98		Littlefalls	95	44	68.4	1.85	Oakridge	100	60	78.0	1.12										
Trenton	94	55	74.7	5.19		Lockport	93	47	69.5	0.48	Paneteg	96	53	73.4	5.38										
Tuckerton	90	55	71.6	9.70		Lowville	94	39	67.8	0.73	Pittsburg	98	62	78.4	4.55										
Vineland	94	54	73.6	6.82		Lyndonville					Rockingham	102	66	81.6	1.20										
Woodbine	93	55	72.7	3.94		Lyons	93	47	71.0	1.49	Roxboro	97 ^a	53	74.8	1.44										
<i>New Mexico.</i>																									
Albert	100	60	80.3	0.88		Madison Barracks	93	40	69.0	0.10	Salem	98	63	78.8	2.34										
Albuquerque	94	54	75.3	0.68		Mayle					Salisbury	100	63	80.7	1.94										
Alma	97	48	73.8	1.75		Middletown	90	50	69.8	2.23	Saxon	102	69	78.8	1.35										
Aztec	92	46 ^b	68.8 ^c	3.30		Mohonk Lake	88	51	69.9	1.52	Seima	100	66	80.3	5.55										
Bernalillo	95	50	74.9	0.64		Mount Morris	93	35	68.7	0.05	Settle	100	60	78.5	1.92										
Bluewater	93	44	69.3	1.00		Newark Valley					Sloan	98	65	77.9	8.22										
Cambray				0.64		New Lisbon	93	35	65.0	3.49	Soapstone Mount	99	61	77.8	0.65										
Clayton	98	57	74.8	0.00		North Germantown	89	49	70.6	1.91	Southern Pines <i>a</i>	102	65	81.0	1.76										
Deming				0.78		North Hammond	93	46	72.2	0.88	Southern Pines <i>b</i>	97	65	79.8	2.30										
East Lasvegas	89	48	70.4	0.17		North Lake	91	38	64.8	3.19	Southport	97	68	81.5	5.19										
Eddy	109	62	88.6	T.		Number Four	91	35	64.4	0.81	Springhope ^d	95	65	77.2	3.46										
Engle	96	55	75.8	0.40		Nunda	100	40	71.4	2.03	Tarboro	100	62	79.6	4.69										
Espanola	97	43	71.6	0.94		Ogdensburg	93	50	70.7	0.83	Waynesville	89	51	70.5	8.27										
Folsom	93	44	70.0	0.27		Oneonta	94	39	66.8	2.72	Weldon <i>a</i>	95	64	77.6	2.59										
Fort Bayard	94	50	72.6	1.30		Oxford	94	37	67.4	3.20	Weldon <i>b</i>				2.89										
Fort Union	92	44	68.7	0.52		Palermo	93	39	68.8	1.09	<i>North Dakota.</i>														
Fort Wingate	93	48	69.6	1.25		Penn Yan	90	49	72.2	1.24	Ashley	90	39	66.5	3.02										
Gage				1.00		Perry City	97	38	65.5	0.96	Berlin ^e	91 ^e	40	62.5	3.87										
Gallisteo	100	50	72.3	0.70		Phenix					Buxton	97	38	64.8	2.44										
Gallinas Spring	96	54	75.7	0.17		Pine City					Churchs Ferry	88	39	64.0	8.86										
Gila	99	55	77.6	1.26		Plattburg Barracks	91	35	66.2	5.28	Coal Harbor	88	43	64.5	0.86										
Hillsboro	96	55	75.4	0.74		Poughkeepsie	94	43	69.8	0.16	Devils Lake	87	40	65.1	4.04										
Las Vegas Hot Springs	92 ^c	50	69.8	0.34		Primrose	93	46	70.7	1.20	Dickinson	90	41	65.4	3.41										
Lordsburg				0.50		Richmondville	93	43	67.6	2.20	Donnybrook	89	33	59.5	1.15										
Lower Penasco	98 ^c	56	73.9	1.35		Ridgeway	94	47	70.6	0.55	Dunseith	90	38	62.6	8.06										
Mesilla Park	99	51	76.6	1.81		Rome	94	43	69.2	1.55	Ellendale	93	45	68.4	4.55										
Monero	89	32	62.0	1.99		Romulus	97	46	71.8	1.80	Fargo	89	37	67.2	3.71										
Raton	92	50	69.4	0.25		Rose					Forman	88	42	71.0	6.25										
Rincon	99	59	78.5	1.54		St. Johnsville	95	41	69.2	1.18	Fort Berthold	94	42	68.8	1.82										
Roswell	103	57	78.8	1.21		Salisbury Mills	89				Fort Yates	90	44	68.4	3.15										
San Marcial	97	53	76.0	2.34		Saranac Lake	93	38	62.6	1.85	Fullerton ^f	93 ^f	38	63.9	7.80										
Socorro	96	56	77.1	0.80		Saratoga Springs	90	44	68.6	2.20	Gallatin	91	35	66.7	3.39										
Strauss				0.44		Schenectady	95	47	71.4	4.98	Grafton	87	36	63.6	2.25										
White Oaks	91	51	73.6	1.72		Schenevus					Hamilton	88	32	63.3	2.36										
Winstons Ranch	96	28	57.2	0.52		Scottsville					Hannaford	89	42	66.7	1.00										
<i>New York.</i>																									
Adams				0.92		Setauket	88	52	70.6	0.97	Langdon	85	39	60.1	3.87										
Addison	93	40	69.3	2.90		Sherwood					Larimore	89	34	64.8	2.81										
Akron				1.38		Skaneateles					Lisbon	92	38	67.8	4.27										
Alfred	94	38	66.0	1.21		South Canisteo	94	38	67.6	1.99	McKinney	91	33	61.0	1.34										
Angelica	93	37	67.2	2.05		Southeast Reservoir					Mayville	88	46	66.5	3.01										
Appleton	90	44	68.9	0.38		South Kortright	93	35	66.0	2.18	Medora	97	40	68.0	2.36										
Arcade	92	43	68.8	0.45		Straits Corners					Milton	87	40	60.5	0.34										
Atlanta				3.14		Volusia	86	49	67.9	2.18	Minnewaukon	88	38	63.8	3.56										
Auburn	98	45	72.6	2.52		Wappingers Falls	91	48	70.9	1.68	Minot	88	38	63.2	5.20										
Avon	96	40	70.8	0.59		Warwick	95	41	71.0	0.93	Minto	95	38	65.5	1.76										
Baldwinsville				3.08		Watertown	95	36	70.0	5.23	Napoleon	89	39	66.2	3.82										
Bedford <i>a</i>	88	43	68.4	0.89		Waverly	96	36	70.0	5.23	Oakdale	87	38	68.8	0.65										
Bedford <i>b</i>				0.80		Wedgewood	98	47	71.9	2.55	Pembina	90	34	68.8	1.81										
Bolivar	92	34	66.2	1.72		West Berne	92	52	72.4	2.19	Portal	90	38	62.4	1.26										
Bonckville				1.97		West Chazy	93	44	67.2	1..18	Power	86	40	65.6	2.92										
Boys Corners	92	43	67.6	1.97		Westfield <i>a</i>	89	45	69.1	1.58	Sheyenne				2.60										
Brentwood	96	47	69.8																						

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>Ohio—Cont'd.</i>						<i>Ohio—Cont'd.</i>						<i>Oregon—Cont'd.</i>					
Bethany.....	90	57	78.3	4.24	Ins.	Strongsville.....	90	58	76.3	2.00	Ins.	Silverton* ¹	86	54	64.4	3.15	Ins.
Bigprairie.....	94	49	73.0	0.80		Thurman.....	99	53	73.0	0.90		Siskiyou* ¹	88	40	62.4	0.00	
Binola.....	94	55	70.0	0.58		Tiffin.....	93	53	73.0	0.90		Sparta.....	87	33	59.4	2.58	
Bladensburg.....	93	47	70.6	2.08		Upper Sandusky.....	96	50	73.7	2.67		Springfield* ¹	88	48	61.3	3.07	
Bloomingburg.....	95	55	76.0	1.25		Urbana.....	91	54	73.6	0.55		Stafford.....	87	44	61.0	8.52	
Bowling Green.....	95	48	72.3	0.75		Vanceburg.....	99	55	75.6	4.25		The Dalles.....	92	45	64.7	0.86	
Bucyrus.....	94	50	78.8	0.40		Vermillion.....	94	51	71.4	1.32		Tillamook Rock.....				4.27	
Cambridge.....	93	45	70.6	1.05		Vickery.....	96	50	72.8	1.88		Toledo.....	78	40	55.8	2.80	
Camp Dennison.....	97	58	76.4	2.36		Walnut.....	98	44	71.4	0.89		Umatilla.....				1.89	
Canal Dover.....	96	47	72.4	1.28		Warren.....	98	44	74.6	1.75		Vale.....	94	30	68.5	0.55	
Canton.....	94	49	72.6	1.14		Warsaw.....	104	44	74.6	4.08		Vernonia.....	97	40	62.2	2.83	
Carrolton.....	97 ^c	46 ^c	73.1 ^c	1.06		Wauseon.....	97	49	73.6	0.84		Westfork* ¹	89	40	60.6	0.69	
Cedarville.....						Waverly.....	100	53	77.2	2.66		Weston.....	93	40	61.6	3.26	
Chillicothe.....	97	54	75.7	0.95		Waynesville.....	97	56	74.1	4.67		Williams.....	89	36	61.0	0.76	
Circleville.....	96	53	73.2	0.83		<i>Oklahoma.</i>						<i>Pennsylvania.</i>					
Clarksville.....	96	57	75.8	3.36		Arapaho.....	109	64	87.4	0.15		Altoona.....	93	45	70.4	4.46	
Cleveland a.....	98	52	70.8	0.80		Beaver.....	106	61	88.8	1.08		Aqueduct.....				8.21	
Cleveland b.....	90	52	71.2	1.11		Burnett.....	109	63	85.0	0.00		Athens.....	98	39	71.3	4.33	
Coatlon.....	99	49	74.7	1.67		Clifton.....	104	60	89.0	0.40		Beaver Dam.....				5.41	
Colebrook.....	94	43	69.2	0.45		Fort Reno.....	107	65	85.1	T.		Bethlehem.....				4.83	
Dayton a.....	98	54	76.6	1.80		Fort Sill.....	104	68	84.8	0.00		Brookville.....				1.68	
Dayton b.....						Guthrie.....	105	69	85.8	1.56		Browers Lock.....				5.28	
Defiance.....	94	50	72.6	1.77		Hennessey.....	108 ^d	61	81.4	0.60		Butler.....	91	44	69.2	3.46	
Delaware.....	95	49	73.6	2.70		Hopeton.....	109	60	84.8	0.27		Carlisle.....	94			10.09	
Demos.....	93	52	72.4	1.78		Kingfisher.....	109	65	87.3	0.73		Cassandra.....	87	45	68.1	3.77	
Dupont.....	90	52	71.4	5.40		Mangum.....	106	64	89.8	T.		Cedarrun.....				2.43	
Elyria.....	97	49	72.6	1.16		Newkirk.....	106	63	81.8	1.28		Centerhall.....	94	45	71.3	3.79	
Findlay.....	98	52	75.4	0.79		Norman.....	108	65	85.2	0.07		Chambersburg.....	96			4.51	
Frankfort.....	93	51	72.6	1.79		Pawhuska.....	108	59	82.2	1.62		Coatesville.....	97	47	74.1	4.82	
Garretttsville.....	97	42	70.1	2.10		Perry.....	106	64	83.6	3.18		Confluence.....				2.53	
Granville.....	94	52	72.4	1.95		Prudence.....	110	59	86.4	0.48		Coopersburg.....	91	51	71.6	4.88	
Gratiot.....	93	51	72.4	1.16		Sac and Fox Agency.....	107	62	84.2	0.50		Davis Island Dam.....				3.88	
Greenfield.....	95	58	75.2	2.55		Stillwater.....	105	63	85.4	2.57		Derry Station.....	98	48	73.0	5.06	
Greenhill.....	95	43	70.6	1.38		Waukomis.....	111	61	86.0	1.97		Driftwood.....				2.10	
Greenspring.....	94	53	75.7	0.82		Winnifield.....	109	60	85.9	0.05		Duncannon.....				4.47	
Greenville.....	91	55	73.5	1.10		Woodward.....	109	69	87.6	0.70		Dushore.....	93			3.79	
Hackney.....	95	42	72.0	1.20		<i>Oregon.</i>						East Bloomsburg.....				5.68	
Hanging Rock.....	99	54	76.6	2.66		Albany b.....						East Mauch Chunk.....	98	43	71.5	4.69	
Hillhouse.....	94	44	61.3	1.06		Alpha.....	87	45	61.0	3.20		Easton.....	93	49	72.6	5.87	
Hillsboro.....	96	52	73.8	3.31		Arlington.....	98	48	66.4	0.59		Ellwood Junction.....				5.18	
Hiram.....	95	58	72.8	1.23		Ashland b.....	91	40	62.8	0.61		Emporium.....	92	48	69.4	3.78	
Hudson.....	97	41	72.0	3.78		Aurora* ¹	85	48	61.3	2.73		Everett.....	94	44	70.9	3.62	
Jacksonboro.....	99	54	77.2	3.40		Aurora (near).....	85	40	59.4	2.64		Farrandsville.....				4.67	
Kenton.....	98	52	76.1	2.25		Bandon.....	66	48	57.3	2.25		Forks of Neshaminy* ¹	91	58	72.0	2.89	
Killbuck.....	94	49	72.5	0.92		Bay City.....	75	48	58.6	5.43		Franklin* ¹	94	46	70.2	1.77	
Lancaster.....	95	52	73.1	1.24		Benlah.....	95	58	61.6	0.10		Frederick.....				5.23	
Leipsic.....	97	49	72.8	2.50		Blalock.....	95	50	69.0	0.41		Freeport.....				3.48	
Levering.....	92	46	69.7	3.97		Bullrun.....	77	44	58.6	6.05		Girardville.....				7.40	
Logan.....	103	49	75.7	1.03		Burns (near).....	90	82	60.9	0.87		Grampian.....	92	46	70.1	3.54	
Lordstown.....	95	41	69.8	1.26		Cascade Locks.....	94	45	62.2	4.82		Greensboro.....	94	50	73.0	1.88	
Lowell.....	100 ^b	50 ^b	78.0 ^b	1.44		Cooslock* ¹	88	45	62.0	2.68		Hamburg.....	96	49	72.7	3.00	
McArthur.....	98	48	74.0	0.89		Coquille River.....						Hawley.....	94	38	68.7	2.43	
McConnelsville.....	98	51	74.2	1.75		Dayville.....	89	37	61.5	1.24		Hawthorn.....	98	44	71.6	2.47	
Mansfield.....						Ella.....						Hews Island Dam.....				2.39	
Marietta.....	92	56	74.6	2.15		Eugene.....	85	44	60.6	3.14		Huntingdon a.....	101	40	71.4	4.53	
Marion.....	98	50	74.5	3.47		Fairview.....	88	41	59.8	2.57		Huntingdon b.....				4.96	
Medina.....	94	44	73.0	1.68		Falls City.....	88	41	59.2	2.93		Irwin.....				1.69	
Mifordton.....	95	48	72.9	1.45		Gardiner.....	72	47	60.0	4.23		Johnstown.....	94	48	72.8	5.34	
Milligan.....	98	47	73.3	2.40		Glenora.....	90	38	58.2	5.89		Keating.....				1.49	
Millport.....	94	49	72.2	1.51		Government Camp.....	77	31	48.6	7.56		Kennett Square.....	96	50	73.1	4.47	
Montpelier.....	94	50	71.6	2.81		Grants Pass.....	94	39	64.1	0.98		Lansdale.....				7.75	
Napoleon.....	94	49	71.0	0.85		Heppner.....	90	39	61.4	1.87		Lawrenceville.....	96	36	68.7	6.06	
Neapolis.....				1.01		Hood River (near).....	89	39	60.8	2.01		Lebanon.....	97	41	73.4	3.18	
New Alexandria.....	93	53	72.7	1.00		Jacksonville.....	94	41	64.8	0.97		Leroy.....	93	48	68.8	6.84	
New Berlin.....	98	48	73.0	1.49		Joseph.....	85	38	56.9	1.83		Lewisburg.....	98	42	73.1	5.49	
New Holland.....	98	53	75.4	1.60		Junction City* ¹	92	50	65.2	2.47		Lock Haven a.....	100	46	73.8	5.38	
New Paris.....	94	57	75.4	6.26		Kerby.....	89	37	62.4	1.15		Lock Haven b.....				5.05	
New Richmond.....	100	58	76.9	4.97		Klamath Falls.....	94	32	61.4	0.08		Lock No. 4.....				1.48	
New Waterford.....	92	45	70.9	2.08		Lafayette* ¹	90	46	61.8	2.12		Lycippus.....	92	51	73.0	3.65	
North Lewisburg.....	96	52	74.6	0.75		Lagrange.....	89	41	63.0	2.48		Mifflin.....				3.60	
North Royalton.....	98	48	73.5	0.72		Lakeview.....	87	28	58.8	0.50		Nisbet.....				4.08	
Norwalk.....	97	46	72.3	1.39		Langlois.....	80	44	62.0	3.03		Oil City.....				1.28	
Oberlin.....	97	45	77.0	1.18		Lonrock.....	90	31	58.8	2.01		Ottaville.....				3.51	
Ohio State University.....	94	53	74.2	1.11		McMinnville ¹	89*	32	60.4	3.71		Parker.....				0.88	
Orangeville.....	93	41	69.6	2.60		Merlin* ¹	95	41	65.2	1.04		Philadelphia.....	95	57	74.6	5.79	
Ottawa.....	95	50	73.8	2.85		Monmouth a* ¹	89	54	66.8	2.88		Point Pleasant.....				5.91	
Pataksala.....	96	48	74.0	1.16		Monmouth b* ¹	89	40	62.0	2.20		Quakertown.....	96	47	72.0	5.76	
Perry.....																	

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.			Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.			Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.	
Pennsylvania—Cont'd.	°	°	°	In.	Ins.		South Dakota—Cont'd.	°	°	°	In.	Ins.		Texas—Cont'd	°	°	°	In.	Ins.	
Sunbury	90	55	73.6	3.55	3.00		Oelrichs	102	89	71.5	0.30	82.9		Coleman	104	62	84.9	0.10	0.00	
Swarthmore	90	44	65.8	4.97		Parker	97	45	73.0	8.36		Colorado	95	68	82.6	3.25				
Swiftwater	89	44	65.8	4.97		Plankinton	98 ^a	48	73.8	1.39		Columbia	98	67	84.0	5.87				
Towanda	95	89	69.6	5.43		Redfield	94	47	71.4	5.98		Conroe	104	59	88.8	0.63				
Trout Run				7.81		Rockford	93	30	61.7	1.11		Corsicana	100	70	85.9	0.23				
Uniontown	98	53	73.1	3.88		St. Lawrence	100	41	73.3	3.85		Cuero	106	68	87.2	T.				
Warren	89	43	68.4	1.39		Shiloh	96	48	70.0	0.88		Dallas	104	69	86.0	1.81				
Wellsboro	98	38	68.2	3.49		Silver City						Danevang	103	67	85.0	0.10				
West Chester	92	55	73.2	4.38		Sioux Falls	96 ^a	44	71.6	5.28		Dublin	103	69	85.4	0.12				
West Newton				2.84		Spearfish	94	45	68.8	0.50		Duval	100	69	85.4	0.00				
Wilkesbarre	97	45	72.4	2.67		Tyndall	97	49	72.9	4.32		Emory	108	66	88.0	0.69				
Williamsport	94	45	72.5	4.15		Watertown	91	48	68.7	5.03		Estelle	108	67	87.6	0.00				
York	95	48	73.5	6.76		Waubay	93	40	68.0	8.02		Forestburg								
Rhode Island						Wentworth	96	49	70.4	4.65		Fort Brown	101	73	86.2	0.00				
Bristol	84	54	68.8	1.74		Wessington Springs	95	41	67.7	1.70		Fort Clark	101	70	86.2	0.00				
Kingston	84	46	68.4	6.00		Whiteswan	98	41	73.4	9.56		Fort McIntosh	106	74	89.4	0.00				
Londsdale				1.88		Wolsey						Fort Ringgold	107	71	87.6	0.00				
Pawtucket	88	52	71.0	1.51		Tennessee						Fort Stockton								
Providence	91	54	72.1	1.58		Andersonville	96	60	77.0	1.56		Fredericksburg	102	68	85.2	0.29				
South Carolina						Arlington	99	60	80.8	2.61		Fruitland	108	68	88.1	0.00				
Allendale	97	65	81.6	16.59		Ashwood	97	65	80.7	3.02		Georgetown	105	71	85.8	0.46				
Anderson				2.60		Benton	98	60	79.8	2.50		Grapevine	107	67	88.0	T.				
Batesburg	103	64	80.9	5.80		Bluff City						Hale Center	100	62	80.9	0.00				
Beaufort	103	68	83.3	10.51		Bolivar	98	65	81.0	1.11		Hallettsville	100	68	85.4	T.				
Blackville	100	62	81.9	7.91		Bristol	91	54	73.4	2.18		Hearne	102	72	87.0	0.35				
Calhoun Falls				6.65		Brownsville	100	64	82.2	0.93		Henetta	109	68	88.6	0.00				
Camden				6.42		Byrdstown	92	60	76.8	2.52		Hewitt								
Cheraw a	101	64	82.9	1.23		Carthage	97	62	79.2	3.00		Hondo								
Cheraw b				1.33		Clinton						Honeygrove								
Clemson College	100	63	79.6	3.00		Covington	103	66	84.2	1.57		Houston	96	68	84.0	4.01				
Conway				6.95		Decatur	97	61	76.6	2.23		Hulen	100	68	83.6	5.30				
Darlington				4.82		Dover		59				Huntsville	98	68	85.2	0.33				
Edisto				3.95		Dyersburg	99	64	82.4	3.00		Jacksonville	103	66	84.8	2.52				
Evingham				1.85		Elizabethton	98	55	76.8	3.03		Jasper	100	69	84.1	0.30				
Florence	100	66	82.0	3.77		Elk Valley						Kent								
Gaffney				8.75		Erasmus	94	51	78.2	3.02		Kerrville	103	62	82.5	0.34				
Georgetown	98	69	82.0	7.77		Florence	93	64	78.7	4.05		Lampassas	103	67	85.1	0.00				
Greenville	97	63	78.9	2.83		Franklin	100	62	80.1	0.83		Langtry	103							
Greenwood	103	63	82.0	6.16		Grace	98	70	79.0	4.10		La Parra								
Holland	100	61	79.5	3.96		Greeneville	94	57	75.5	3.03		Leureles Ranch								
Kingstree a	97	68	82.4	5.28		Harriman	100	62	77.8	1.96		Llano	104	75	85.8	T.				
Kingstree b				5.24		Hohenwald	95	59	77.4	4.48		Luling	103	70	85.8	0.18				
Little Mountain	101	65	82.5	3.97		Jackson	98	65	80.8	1.00		Mann	113	68	86.4	0.83				
Longshore	102	63	81.5	4.82		Johnsonville	99	60	79.6	2.94		Marathon	103	56	78.2	0.00				
Pinopolis ^a	94	70	79.9	17.94		Kingston						Mount Blanco	104	62	82.2	0.00				
St. Georges	98	67	81.6	10.34		Lafayette ^a	96	60	77.9	4.60		New Braunfels	100	68	84.8	0.00				
St. Matthews	100	67	82.2	6.89		Lewisburg	98	60	80.8	2.96		Panter	110	68	88.6	0.02				
St. Stephens				10.81		Liberty	98	60	80.4	2.28		Paris a	110	68	88.6	T.				
Santuck	102	59	81.0	2.07		Lynnville	95	60	79.9	4.09		Point Isabel ^a	94	80	84.5	0.00				
Shaws Fork	99	60	80.2	6.45		McMinnville	98	60	78.2	3.23		Rhineband	110	66	89.0	0.00				
Smiths Mills				4.13		Madison	96	62	79.6	3.32		Rock Island	101	69	84.4	0.73				
Society Hill	97	68	81.6	3.55		Maryville ^a	97	61	78.8	2.89		Rockport ^a	89	73	80.2	0.00				
Spartanburg				5.21		Milan	101	62	82.4	2.60		Rocksprings								
Statesburg	102	65	81.5	6.79		Newport	94	59	77.9	1.90		Runge	104	72	87.8	0.45				
Summerville	98	67	80.4	15.42		Nunnelly	98	60	78.8	4.69		Sabine Pass	98	70	84.6	5.88				
Temperance	102	64	82.0	3.73		Oakhill	94	58	78.4	2.91		San Antonio	104	72	89.3	0.00				
Trenton	97	67	82.1	6.55		Palmetto	100	63	80.9	1.58		Sanderson	100	78						
Trial	95	63	77.8	9.98		Perryear						San Marcos	100	67	82.9	0.00				
Winnabow	94	64	78.8	4.12		Pop	100	55	70.8	3.01		Sherman	103	72	88.2	0.00				
Yemassee	100	65	82.6	7.55		Rogersville	92	59	75.0	1.90		Sugarland	108	70	87.4	1.11				
Yorkville	101	64	82.2	2.25		Rugby	92	55	74.0	0.97		Sulphur Springs	106	68	86.8	0.63				
South Dakota						Savannah	98	65	81.4	3.27		Temple a	100	67	85.6	0.15				
Aberdeen	96	47	71.7	9.52		Sewanee	92	62	76.9	4.53		Tyler	103	68	86.4	0.86				
Alexandria	101	45	73.8	4.92		Silverlake	88	51	70.0	3.08		Valentine	99			2.06				
Armour	95	45	72.6	5.55		Springdale	98	57	76.8	2.61		Victoria				0.35				
Ashcroft	96	37	68.4	1.52		Springfield	97	60	79.0	2.40		Waco	103	70	87.6	1.40				
Bowdrie	92	44	68.3	5.96		Sylvia	95	62	79.0	1.18		Waxahachie	107	63	87.8	0.35				
Brookings	95	44	69.4	3.25		Tazewell						Weatherford	104	66	87.6	0.00				
Canton	95	44	69.4	3.25		Tracy City . . .														

TABLE II.—Climatological record of voluntary and other cooperating observers—Continued.

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations	Temperature. (Fahrenheit.)			Precipita- tion.		Stations	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
				Ins.	Ins.					Ins.	Ins.					Ins.	Ins.
<i>Utah—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>Washington—Cont'd.</i>	o	o	o	Ins.	Ins.	<i>Wisconsin—Cont'd.</i>	o	o	o	Ins.	Ins.
Pinto	86	33	57.8	1.06		Lacenter	86	43	60.4	4.00		Lancaster	93	46	71.6	4.18	
Promontory*	98	36	65.0	1.06		Lakeside	89	44	65.4	1.43		Lincoln	94	48	71.0	1.00	
Richfield	93	34	59.7	0.12		Lind	100	45	70.5	0.66		Madison	89	53	72.1	3.57	
St. George	102	44	72.8	2.93		Mayfield	87	40	60.8	3.00		Manitowoc	88	48	67.4	0.93	
Scipio	89	29	66.2	1.08		Moxee Valley	94	38	68.8	1.12		Meadow Valley	95	42	69.6	8.78	
Snowville	89	27	68.1	0.50		New Whatcom	77	39	58.0	8.04		Medford				3.80	
Soldier Summit	35	....	0.45			Northbend	84	35	60.2	4.94		Menasha				2.14	
Terrace*	97	30	61.4	0.00		Northport	90	34	59.2	2.24		Neillsville	92	44	69.2	2.76	
Tooele	93	43	69.4	0.98		Olga	75	40	55.1	2.31		New Holstein				1.55	
Tropic	86	31	58.8	0.55		Olympia	82	40	60.0	1.37		New London	95	43	69.8	1.88	
Vernal	88	48	66.6	1.68		Orcas Island	75	40	58.6	1.82		Oconto	93	44	69.8		
Woodruff	86	26	57.3	0.84		Pinehill	86	41	62.4	1.24		Osecola	96	44	69.0	4.87	
<i>Vermont.</i>						Pomeroy	98	42	67.4	2.32		Oshkosh				1.50	
Bennington	93	40	68.6	1.26		Port Townsend	76	44	58.0	2.52		Pepin	94	49	72.8	3.51	
Brattleboro	91	41	68.8	1.78		Pullman	93	38	60.8	2.20		Portage	94	47	71.2	2.53	
Burlington	93	51	72.6	3.82		Ritzville	....	....	....	0.72		Port Washington	93	47	69.8	1.20	
Chelesa	88	39	64.5	0.46		Rosalia	87	38	58.3	1.70		Prairie du Chien	97	47	74.7	8.00	
Cornwall	98	42	69.9	0.38		Silvana	79	38	57.8	5.71		Prentice*	90	50	65.1	7.40	
Derby	89	39	66.0	2.37		Snohomish	90	43	59.8	5.77		Racine				1.03	
Enosburg Falls	94	37	66.4	1.99		Snoqualmie	82	46	64.8	4.66		Sharon	95 ^a	51 ^a	75.8 ^a	1.93	
Hartland	89	36	64.6	1.88		Southbend	83	40	59.3	3.19		Shawano	93	41	69.1	1.95	
Jacksonville	89	34	62.9	2.06		Sunnyside	91	41	60.4	2.56		Spooner	93	40	69.0	2.49	
Norwich	93	37	65.6	....		Usk	90	32	60.1	....		Stevens Point	94	43	69.8		
St. Johnsbury	86	38	64.6	3.24		Vancouver	85	42	61.0	3.03		Sturgeon Bay Canal*	88	48	67.1		
Vernon*	89	48	71.1	1.96		Vashon	77	43	59.1	2.68		Two Rivers*	87	56	70.1		
Wells	92	42	68.2	0.71		Waterville	91	36	60.9	1.14		Valley Junction	94	37	69.1	8.89	
Woodstock	90	36	64.3	2.70		Wenatchee (near)	90	38	62.5	0.76		Viroqua	93	45	70.8	4.53	
<i>Virginia.</i>						<i>West Virginia.</i>						Watertown	93	46	70.7	8.85	
Alexandria	97	59	77.0	4.49		Beckley	86	47	68.8	0.84		Waupesha	92	51	71.5	2.50	
Ashland	93	53	76.8	5.11		Beverly	94	49	71.6	3.07		Waupaca	95	48	69.8	2.57	
Barboursville	95	59	75.6	3.14		Bluefield	91	52	71.6	3.25		Wausau	90	44	68.8	2.58	
Bedford	93	57	77.5	6.86		Buckhannon	....	....	....	2.78		Westbend	94	49	71.6	2.11	
Bigstone Gap	95	54	74.4	3.18		Burlington	97	44	73.2	1.08		Westfield	93	46	71.2	3.98	
Birdsdest*	93	67	77.2	3.80		Cairo	95	46	70.4	5.47		Whitelake	94	44	71.0	4.91	
Blacksburg	91	50	71.8	3.80		Charleston	....	....	....	4.57		<i>Wyoming.</i>					
Buckingham	58	....	7.46			Dayton	94	49	72.8	2.39		Alcoova	94	27	68.8	0.10	
Burke's Garden	87	42	67.8	1.39		Eastbank	91	60	76.8	2.06		Basin	97 ^a	70.8 ^a		0.27	
Callawayville	95	63	76.9	0.98		Elkhorn	92	58	73.4	1.30		Bedford	93	27	56.4		
Christiansburg						Fairmont	....	....	....	3.01		Bigpiney	78	23	53.0	0.90	
Clarksville						Glenville	92	54	73.0	1.74		Buffalo	92	36	66.6	T.	
Clifton Forge	94	55	75.8	2.12		Grafton	94	49	72.2	2.10		Burns	87	20	54.0	0.53	
Columbia						Green Sulphur	98	53	75.0	1.57		Carbon	99	34	68.1	0.49	
Dale Enterprise	98	49	72.8	2.18		Hamlin	95	53	73.0	2.35		Centennial	94	38	55.3	0.94	
Danville						Harpers Ferry	....	....	....	5.69		Embar	94	38	66.1		
Dwale						Hinton a	....	....	....	2.45		Evanson	82	27	56.7	0.73	
Farmville	102	61	78.5	8.02		Hinton b	96	59	76.6	....		Fort Laramie	100	39	71.1	1.88	
Fontella	100	59	77.4	8.81		Huntington	97	55	76.4	3.22		Fort Washakie	88	32	63.9	1.75	
Fredericksburg	94	59	78.3	4.45		Kingwood	98	50	71.8	2.55		Fort Yellowstone	88	32	57.0	2.23	
Hampton	94	69	79.4	3.45		Madison	98 ^b	56	76.2	6.87		Fourbear	81	32	56.5	0.32	
Hot Springs	91	47	71.8	2.05		Marlinton	90	48	70.0	3.43		Hecla	89	37	68.8	2.04	
Lexington	94	58	76.7	5.41		Martinsburg	25	50	73.2	3.01		Hyattville	94	36	65.4		
Manassas	95	55	75.6	4.89		Morgantown	97	50	74.5	1.78		Laramie	88	32	60.7	1.44	
Marlon	95	49	78.2	2.63		New Cumberland	100	49	75.2	2.85		Lovell	101	33	65.4		
Miller School	55	....	6.01			New Martinsville	98	52	75.2	1.40		Lusk	98	46	68.7	1.01	
Newport News ^a	100	70	82.9	2.40		Nuttallburg	90	50	72.6	2.18		Rawlins	84	34	61.4	0.43	
Petersburg	97	62	77.8	5.81		Oceana	94	51	75.4	2.46		Rocksprings	88	33	58.4	0.80	
Quantico	98	52	74.4	2.78		Oldfields	95	46	72.8	3.17		Sheridan	96	33	67.9	0.12	
Radford						Parsons	90	50	71.2	2.37		Thayne	90	25	55.6	1.33	
Richmond (near)	97	61	76.0	5.34		Phillippi a	95	50	73.2	1.90		Thermopolis	85	34	68.6		
Rockymount	95	60	76.8	1.63		Phillippi b	....	....	....	1.75		Wamsutter	92	38	63.7	1.25	
Salem	95	61	77.8	4.44		Point Pleasant	98	55	76.5	2.17		Wheatland	95	46	69.2	0.49	
Speers Ferry						Powellton	90	51	73.0	2.50		<i>Mexico.</i>					
Spottsville	96	61	78.0	4.41		Romey	25	48	73.8	0.34		Ciudad P. Diaz	100	80	89.0	T.	
Stanardsville	95	55	74.6	4.14		Rowlesburg	....	....	....	2.96		Coatzacoalcos ²	84	50	68.8	2.96	
Staunton	99	53	75.6	5.46		Terra Alta	....	....	....	1.73		Leon de Aldamas	76	53	65.8	5.85	
Stephens City	98	50	74.8	3.50		Upper tract	98	44	73.0	3.76		Puebla					
Sunbeam	96	63	78.2	6.02		Weston a	95	58	76.2	3.28		Tampico ²	76	53	63.6		
Warrenton	96	61	76.4	6.04		Wheeling a	97	58	77.7	1.20		Vera Cruz ²	81.6				
Warsaw	95	60	77.2	3.22		Wheeling b	....	....	....	....		New Brunswick					
Westbrook Farm	98	62	77.1			Amherst	94	40	70.4	1.09		St. John	76	48	62.0	2.06	
Westpoint						Antigo	94	41	67.2	1.69		Porto Rico					
Woodstock	96	49	74.2	3.17		Barron	92	38	67.4	5.87		Adjuntas	94	52	74.0	32.22	
Wytheville	98	52	73.8	2.37		Bayfield	88	50	69.8	4.43		Arecibo ¹	87	72	81.4		
<i>Washington.</i>						Beloit	93	51	73.7	2.49		Bayamon	94	67	80.2	18.02	
Aberdeen	77	43	59.8	3.16		Brothead	98	48	73.2	2.59		Canovanas	85	72	78.5	12.88	
Anacortes						Butternut	92	37	67.2	4.71		Cayey	92 ^a	68 ^a	77.4 ^a	15.89	
Ashford						Chilton	94	44	70.8	2.22		Corozal	92	65</			

TABLE II.—*Climatological record of voluntary and other cooperating observers—Continued.*

Stations.	Temperature. (Fahrenheit.)			Precipita- tion.		Stations.	Temperature. (Fahrenheit.)			Precipita- tion.	
	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.		Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
<i>California.</i>											
Agnew.....	°	°	°	Ins.	Ins.	<i>Maryland.</i>	°	°	°	Ins.	Ins.
Chino.....	90	46	66.0	0.00		Sudlersville.....	93	58	75.1	.....
Kernville.....				0.00		<i>South Dakota.</i>					
Redding.....	106	59	81.0	0.00		Watertown.....	97	38	67.8	0.95	
Sierra Madre.....	95	51	72.6	0.00		<i>Texas.</i>					
Yuba City* ⁵	103	58	79.2	0.00		Albany* ¹	102	64	81.8	0.72	
<i>Delaware.</i>						Leparra.....					
Wyoming.....	92	54	75.8	7.40		Rocksprings.....					
<i>Louisiana.</i>						Tulla.....	97	59	75.5	10.84	
Elm Hall.....	94	69	82.2	3.33		<i>Wyoming.</i>					
						Lovell.....	106	42	72.5	0.81	

EXPLANATION OF SIGNS.

* Extremes of temperature from observed readings of dry thermometer.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

¹ Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. + 4.

² Mean of 8 a. m. + 8 p. m. + 2.

³ Mean of 7 a. m. + 7 p. m. + 2.

⁴ Mean of 6 a. m. + 6 p. m. + 2.

⁵ Mean of 7 a. m. + 2 p. m. + 2.

* Mean of readings at various hours reduced to true daily mean by special tables.

⁶ Mean from hourly readings of thermograph.

⁷ Mean of sunrise and noon.

¹⁰ Mean of sunrise, noon, sunset, and midnight.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An italic letter following the name of a station, as "Livingston *a*," "Livingston *b*," indicates that two or more observers, as the case may be, are reporting from the same station. A small roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "*a*" denotes 14 days missing.

TABLE III.—Mean temperature for each hour of seventy-fifth meridian time, August, 1899.

Stations.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mdn't.	Mean.	
Bismarck, N. Dak.	62.4	61.5	60.0	58.8	58.3	57.0	56.2	57.4	59.8	63.1	66.5	74.2	74.2	76.2	77.3	78.1	77.8	78.6	75.1	73.0	68.5	66.2	64.0	64.1		
Boston, Mass.	61.5	63.9	63.4	62.9	62.5	62.9	64.3	66.8	69.2	70.4	70.9	71.4	72.4	72.6	72.7	72.5	72.1	70.2	68.9	68.0	67.8	66.4	65.4	68.1		
Buffalo, N. Y.	67.5	66.8	66.2	65.7	65.3	65.4	67.0	68.6	70.5	72.7	74.5	76.0	77.2	77.4	78.4	78.5	78.1	76.6	74.8	73.2	71.8	69.8	68.8	71.7		
Cedar City, Utah	64.6	64.0	63.2	63.0	62.0	61.3	60.7	60.4	60.7	61.9	67.5	69.9	71.5	73.5	74.0	75.3	76.5	75.2	73.8	72.3	68.7	65.7	63.1	63.1		
Chicago, Ill.	73.2	71.3	70.8	70.4	70.0	69.6	69.5	70.9	72.0	73.0	73.9	73.9	74.1	74.6	75.5	76.1	75.5	74.3	73.5	72.9	73.6	73.0	72.9	73.0		
Cincinnati, Ohio	73.3	72.0	71.1	70.3	69.2	68.6	68.2	70.4	73.3	75.3	78.2	80.8	83.6	83.9	85.1	86.3	86.7	84.9	82.5	80.6	78.8	76.6	75.0	77.4		
Cleveland, Ohio	69.1	68.3	67.5	66.8	65.9	65.5	66.3	67.9	70.9	72.9	74.4	74.9	75.2	75.4	74.9	75.5	75.9	76.0	76.1	75.1	75.3	72.2	71.3	71.7		
Detroit, Mich.	67.9	67.1	66.3	65.6	64.5	64.0	64.4	67.5	70.1	72.5	74.7	76.3	77.8	79.7	79.9	80.2	79.0	79.4	77.7	75.2	73.9	71.2	69.6	68.5	72.2	
Dodge, Kans.	74.5	73.1	71.7	70.8	69.7	69.1	68.0	68.8	71.1	71.7	81.0	84.6	87.3	89.8	91.4	92.8	92.6	92.4	90.6	88.8	83.1	79.5	77.3	75.6	80.0	
Eastport, Me.	57.0	56.7	56.8	55.7	55.2	55.6	56.7	58.4	60.6	62.3	63.9	64.8	64.8	65.8	65.3	64.8	63.6	61.5	60.8	59.1	58.4	57.8	57.4	60.3	57.1	
Galveston, Tex.	81.7	81.6	81.2	81.1	80.7	79.8	79.9	80.5	82.0	84.7	86.3	86.5	86.7	86.5	86.8	85.5	84.7	84.0	82.9	82.3	81.8	81.7	83.1	83.1		
Havre, Mont.	58.3	57.1	55.7	54.7	53.5	51.1	50.9	53.0	56.7	60.4	63.3	66.8	70.5	71.5	72.5	72.9	71.9	70.8	69.2	66.3	63.9	62.0	60.4	63.1	63.1	
Independence, Cal.	73.3	71.1	69.5	67.9	66.4	65.0	65.5	62.6	61.9	64.3	69.1	72.9	76.1	79.3	81.9	83.3	84.2	84.5	84.5	81.9	79.6	77.5	75.0	74.2		
Kalispell, Mont.	52.8	51.4	50.0	49.3	48.2	47.4	46.4	46.2	47.4	50.7	53.9	56.9	59.0	61.5	63.3	64.1	65.0	65.4	65.2	64.4	62.6	60.9	59.2	54.4	55.9	
Kansas City, Mo.	73.7	75.1	74.2	73.6	72.1	71.5	72.4	75.3	78.5	80.2	82.2	84.0	85.8	87.0	87.9	88.1	87.8	86.6	84.4	81.1	79.1	77.8	76.3	70.6		
Key West, Fla.	82.5	82.2	82.2	81.7	81.4	81.3	82.2	84.2	85.1	85.7	86.6	87.1	87.6	87.0	86.6	86.2	84.9	84.2	83.5	83.4	82.9	82.0	81.2	81.2		
Marquette, Mich.	62.6	62.4	62.2	62.1	61.3	61.0	61.9	64.0	65.8	67.3	68.7	70.1	70.7	70.5	70.3	69.4	69.6	68.8	67.4	66.8	64.3	62.9	62.5	65.6		
Memphis, Tenn.	79.4	78.6	78.0	77.4	76.8	76.0	75.4	76.4	78.3	80.2	82.8	84.9	86.5	87.5	88.5	89.1	88.8	87.5	86.1	83.2	81.3	79.3	78.5	80.3	82.1	
Mt. Tamalpais, Cal.	60.6	60.2	60.5	59.7	59.7	58.2	58.7	57.7	58.1	59.0	59.9	60.9	61.2	62.1	62.9	63.4	63.7	63.7	61.7	61.2	60.5	61.2	60.5	61.2	61.2	
New Orleans, La.	78.6	78.4	78.2	77.8	77.6	77.5	77.4	78.9	81.1	82.8	84.4	85.5	86.7	87.1	88.5	89.0	89.2	88.6	88.2	87.4	86.0	85.4	85.2	84.8	84.2	
New York, N. Y.	69.3	69.1	68.6	68.1	67.6	67.7	68.3	69.7	71.1	72.9	75.4	76.5	78.0	78.2	78.2	77.5	76.1	74.9	73.4	72.2	70.9	70.8	70.3	72.4	70.8	
Philadelphia, Pa.	70.1	69.3	68.7	68.1	67.7	68.0	69.2	71.3	73.0	75.0	76.9	78.9	80.1	81.0	81.5	81.5	80.8	79.3	77.2	75.6	73.2	72.2	70.9	73.2	73.2	
Pittsburg, Pa.	68.5	67.4	66.3	65.6	64.5	64.6	65.3	67.6	71.1	74.3	77.5	79.6	81.1	81.7	82.3	82.5	82.8	82.0	81.9	81.6	79.9	77.3	75.9	71.0	73.8	
Portland, Oreg.	61.6	60.4	59.5	58.4	57.8	56.3	55.8	55.2	56.4	55.3	56.7	58.0	59.5	61.4	62.8	64.4	65.8	67.1	67.5	67.4	66.9	65.7	64.1	62.5	61.0	
St. Louis, Mo.	77.4	76.4	75.7	74.8	74.0	73.8	73.0	74.8	76.9	79.6	82.0	84.2	85.6	86.5	87.4	88.5	89.0	88.6	88.0	87.4	86.8	85.3	84.3	83.3	82.8	
St. Paul, Minn.	69.3	68.0	68.6	68.5	68.3	68.4	68.4	68.7	69.6	70.9	71.7	74.1	75.7	77.4	78.8	79.5	80.0	79.2	77.1	75.4	73.5	71.9	70.4	70.2	70.0	
Salt Lake City, Utah	66.6	65.4	63.7	62.8	62.4	60.8	60.6	61.5	61.1	64.0	68.2	72.2	74.5	76.6	77.5	78.0	79.0	79.3	78.3	77.1	75.6	73.9	69.3	67.6	69.8	
San Diego, Cal.	64.4	64.1	63.5	63.1	63.0	62.7	62.5	62.1	61.9	62.6	64.0	65.9	67.3	68.4	69.0	69.4	69.5	69.4	69.4	69.4	69.4	69.4	69.5	69.5	69.5	
San Francisco, Cal.	55.9	55.6	55.1	54.6	54.1	54.2	54.3	54.7	53.8	54.2	55.4	57.1	59.3	60.5	61.3	61.5	61.6	60.7	60.0	58.9	57.8	56.8	56.2	57.3	57.3	
Santa Fe, N. Mex.	64.7	63.8	62.6	62.1	60.5	59.7	58.2	59.0	60.3	61.7	63.0	60.8	62.2	63.2	65.6	67.0	68.6	69.6	68.6	67.5	66.5	65.5	68.8	67.8	68.8	
Savannah, Ga.	77.5	77.2	76.7	76.2	75.9	75.5	75.6	76.9	78.6	80.5	81.1	82.7	83.7	84.7	85.7	86.6	87.8	85.3	82.6	80.7	78.8	78.4	77.6	81.8	81.8	
Washington, D. C.	69.5	68.8	68.1	67.8	67.6	67.3	68.5	71.6	73.1	73.9	77.9	79.3	80.4	81.6	82.5	81.7	80.8	79.9	77.8	75.3	73.9	72.7	71.4	74.4	74.4	
<i>West Indies.</i>																										
Basseterre, St. Kitts.	78.7	78.4	78.4	78.7	78.5	79.2	81.2	81.9	83.1	83.8	84.4	84.6	84.6	84.0	83.0	82.3	81.0	80.0	80.0	80.2	79.8	79.5	79.0	78.8	81.0	
Bridgetown, Barbados	77.5	77.8	77.1	77.2	77.3	79.4	81.9	83.5	84.4	85.4	85.5	85.6	85.1	84.5	83.6	82.5	80.9	80.0	79.5	79.3	78.8	78.6	77.1	77.0	80.8	
Cienfuegos, Cuba	75.7	74.8	74.4	74.1	73.8	74.0	75.5	81.2	84.1	85.9	87.7	88.7	89.7	89.2	87.7	86.0	84.4	83.0	81.3	80.1	78.7	78.1	77.0	76.5	81.0	
Havana, Cuba	78.6	77.9	77.2	76.7	76.1	76.1	75.7	77.6	78.3	79.3	80.2	81.7	82.6	83.6	84.6	85.2	86.1	86.8	87.3	87.8	88.3	88.7	88.8	88.8	88.8	
Havre, Mont.	77.7	77.3	76.7	76.7	76.5	75.7	75.3	75.9	80.6	83.9	87.9	87.5	87.5	87.7	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	
Independence, Cal.	75.7	74.8	74.0	74.1	74.1	74.1	74.8	77.9	81.4	82.7	84.3	84.3	83.3	83.2	83.2	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	
Kalispell, Mont.	65.8	65.7	65.4	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3	
Kansas City, Mo.	89.9	91.4	92.8	93.0	94.1	94.5	95.4	95.7	96.8	97.4	97.5	97.0	96.1	94.5	93.1	91.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	
Key West, Fla.	94.9	93.5	93.2	93.4	94.1	94.5	95.4	95.7	96.8	97.4	97.5	97.0	96.1	94.5	93.1	91.9	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	
Marquette, Mich.	99.4	97.1	95.8	95.5	94.1	93.9	93.7	93.5	93.9	94.2	94.9	95.7	96.2	96.8	97.5	98.5	98.8	98.4	98.5	98.6	98.7	98.8	98.8	98.8	98.8	
Memphis, Tenn.	95.1	94.9	94.0	93.7	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	
Mt. Tamalpais, Cal.	24.971	25.7	27.8	27.8	27.6	27.6	27.6																			

TABLE V.—Average wind movement for each hour of seventy-fifth meridian time, August, 1899.

Stations.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Midnight.	Mean.
Abilene, Tex.	8.7	8.8	8.6	8.6	8.3	8.3	7.7	6.9	8.5	11.2	11.6	10.6	9.9	9.2	8.9	9.1	9.5	9.5	9.8	9.7	7.5	6.4	7.3	8.3	8.9
Albany, N. Y.	4.1	3.9	4.8	3.6	3.5	3.3	4.1	5.5	6.1	6.0	6.5	6.5	7.1	7.2	7.6	7.9	7.8	7.1	6.5	5.2	4.4	4.9	4.2	5.6	5.6
Alpena, Mich.	5.9	5.6	5.6	5.5	5.8	6.0	5.7	6.1	7.3	7.6	8.2	8.9	10.5	11.2	11.0	11.2	10.8	10.5	9.5	7.6	6.5	6.4	6.8	7.7	7.7
Amarillo, Tex.	12.0	12.2	11.9	11.5	12.1	12.7	12.5	12.4	12.2	13.0	13.9	15.3	14.9	14.1	13.6	13.4	13.9	14.7	14.6	14.0	13.9	12.4	12.3	12.5	13.2
Atlanta, Ga.	8.5	8.3	8.3	8.5	8.1	8.4	8.1	7.6	8.2	8.3	9.1	9.3	9.6	10.0	10.3	10.1	9.6	9.3	9.4	7.9	7.8	7.9	8.3	8.7	8.7
Atlantic City, N. J.	8.3	8.6	9.5	9.1	8.9	9.1	9.8	10.8	11.3	11.4	11.5	11.7	12.1	12.1	11.4	11.5	10.9	10.5	9.7	9.1	8.7	8.5	8.6	8.2	10.0
Augusta, Ga.	3.7	4.0	4.2	4.0	3.5	3.3	3.6	5.0	6.3	6.7	7.0	7.5	8.4	8.3	8.6	8.2	7.7	8.0	7.3	5.9	5.0	5.2	4.4	4.5	5.9
Baker City, Oreg.	3.9	3.7	4.1	4.2	4.6	4.8	5.3	5.9	6.1	5.9	4.0	3.1	3.9	4.8	4.9	5.9	6.4	6.7	7.1	6.2	5.5	4.9	4.4	5.1	5.1
Baltimore, Md.	3.6	3.7	3.9	4.4	4.5	4.4	4.6	4.6	5.6	6.3	6.4	6.8	7.1	7.6	7.3	7.1	6.7	6.0	4.4	4.4	3.9	4.0	3.7	5.3	5.3
Bismarck, N. Dak.	7.4	6.7	6.8	6.7	7.5	7.2	6.7	7.9	8.8	10.9	12.4	12.9	14.3	13.5	12.9	12.6	12.2	11.8	9.9	8.0	8.1	7.4	7.2	9.7	9.7
Block Island, R. I.	9.0	9.6	9.6	9.7	9.8	11.0	10.8	11.6	11.6	12.0	12.0	11.6	10.8	11.3	11.5	11.8	11.2	10.5	10.2	10.0	9.8	9.1	8.7	10.6	10.6
Boise, Idaho.	8.7	8.8	8.4	8.4	3.3	2.7	3.2	2.9	2.9	2.4	2.9	3.5	4.3	5.1	5.8	5.3	5.8	5.9	5.3	4.9	4.0	3.8	4.1	3.8	4.1
Boston, Mass.	7.4	8.9	8.8	8.6	8.6	6.6	6.7	7.4	7.5	8.0	8.7	9.0	9.7	10.3	10.1	9.0	8.4	7.9	8.0	8.3	8.1	7.9	8.2	8.2	
Buffalo, N. Y.	2.3	8.4	8.2	7.8	8.0	8.1	7.7	7.5	7.8	8.9	9.5	11.0	11.5	12.3	12.0	12.3	12.2	11.5	10.3	9.4	9.6	9.1	8.7	9.6	
Cairo, Ill.	4.4	4.3	4.2	4.5	4.4	4.4	4.7	4.7	5.8	5.5	5.3	6.1	6.0	6.9	7.3	7.1	7.2	6.9	6.0	5.1	4.8	4.3	3.6	3.9	5.3
Cape Henry, Va.	11.6	12.5	12.3	12.6	12.7	13.0	12.9	13.6	14.4	14.5	15.1	16.2	16.0	16.5	16.8	16.4	16.0	14.5	13.9	13.8	14.8	14.0	13.2	12.7	14.2
Carson City, Nev.	6.4	6.0	5.1	3.8	3.8	3.8	3.2	2.7	2.1	3.1	4.0	6.4	8.2	9.6	11.2	11.5	13.8	12.2	11.0	9.6	9.5	7.5	7.2	7.1	7.1
Cedar City, Utah.	7.3	7.1	6.6	6.5	6.4	6.2	6.5	6.7	6.8	5.5	5.8	7.1	8.5	9.7	11.0	10.9	11.1	10.5	10.6	10.2	8.7	8.3	5.6	6.2	7.8
Charleston, S. C.	10.3	9.8	9.8	9.7	9.8	9.0	9.2	10.3	11.3	11.9	12.9	13.0	13.8	14.2	14.4	14.3	13.4	11.4	10.4	10.6	10.5	10.4	10.9	11.5	11.5
Charlotte, N. C.	5.1	5.5	5.1	5.5	5.0	5.2	4.6	5.7	5.7	5.9	6.1	6.3	6.2	6.5	6.2	6.0	5.5	5.3	5.6	5.6	5.7	5.7	5.7	5.7	5.7
Chattanooga, Tenn.	4.0	8.3	3.4	2.8	3.7	3.1	3.4	3.8	5.5	7.1	6.4	6.8	7.4	7.8	7.4	9.4	10.0	9.3	7.8	6.4	5.3	4.5	4.8	4.3	5.7
Cheyenne, Wyo.	8.0	8.1	7.5	7.1	6.8	6.9	7.2	6.6	7.4	8.5	10.5	11.6	13.1	13.8	13.2	13.5	13.1	12.7	10.6	8.8	9.8	7.6	9.9	9.9	
Chicago, Ill.	14.0	15.0	13.8	12.9	18.5	13.8	12.9	12.9	12.6	12.2	11.6	18.2	14.8	14.0	14.7	14.2	15.9	15.1	14.3	14.2	14.7	13.7	12.8	13.8	13.8
Cincinnati, Ohio.	4.1	4.4	4.4	3.9	3.9	3.7	3.9	4.1	5.5	6.5	7.3	7.7	8.1	8.6	8.3	8.4	8.0	6.9	5.8	5.4	4.6	4.2	4.4	5.8	5.8
Cleveland, Ohio.	12.0	12.4	11.0	11.6	11.8	11.1	10.7	10.6	10.8	11.2	12.5	13.4	13.7	13.7	13.7	13.4	12.1	9.9	10.1	10.6	10.8	11.7	11.7	11.7	
Columbia, Mo.	6.8	6.1	5.8	5.8	5.7	5.6	5.7	5.0	4.7	4.9	5.6	5.9	6.4	6.3	6.3	7.0	7.0	5.0	5.4	5.3	5.9	6.3	7.0	6.0	
Columbus, Ohio.	4.8	4.5	4.5	4.6	4.6	4.3	5.1	5.6	6.0	6.7	6.9	8.2	8.3	8.2	8.3	8.8	7.8	6.8	6.2	6.1	6.3	5.9	5.6	6.1	
Concordia, Kans.	6.8	6.1	5.3	5.4	4.7	4.4	4.5	4.6	5.8	7.9	8.5	8.5	8.7	9.1	9.5	9.5	8.8	7.8	6.2	5.5	5.9	6.0	6.8		
Corpus Christi, Tex.	11.8	9.5	8.0	7.2	6.4	5.7	5.8	5.8	5.7	5.9	9.0	11.7	14.8	16.9	17.8	18.7	19.3	19.9	20.7	19.6	18.7	17.1	15.2	18.5	18.0
Davenport, Iowa.	5.2	4.6	4.5	4.7	4.6	4.4	4.8	4.9	5.5	6.5	7.3	7.5	8.4	8.4	8.4	8.5	9.0	7.7	6.7	5.0	4.4	4.5	5.1	6.0	
Denver, Colo.	6.9	6.5	7.0	7.0	6.4	6.3	6.1	5.5	5.1	5.1	5.7	6.1	6.7	7.5	7.9	9.0	10.1	10.6	11.6	11.9	11.8	8.8	7.7	7.7	
Des Moines, Iowa.	4.3	4.5	4.7	4.9	5.2	4.9	4.9	5.1	6.0	6.9	8.3	9.9	10.6	10.8	10.2	10.2	10.8	9.5	8.3	8.5	5.7	5.2	6.0	6.9	
Detroit, Mich.	5.9	6.1	6.6	6.1	6.0	6.5	6.2	6.5	7.5	7.8	8.3	8.8	10.2	10.4	10.6	9.7	9.3	8.2	7.1	6.3	6.2	6.8	6.4	7.6	
Dodge, Kans.	11.0	11.5	10.4	9.5	9.1	8.9	7.6	7.5	7.5	9.2	11.3	12.5	12.4	12.6	12.8	13.0	13.4	14.1	13.7	13.4	10.7	10.5	11.1	11.1	
Dubuque, Iowa.	4.4	4.2	4.3	3.9	3.6	3.6	3.7	4.3	5.7	6.7	7.2	8.0	8.4	8.6	9.0	9.2	8.8	8.5	8.6	5.1	4.1	4.5	5.2	5.9	
Duluth, Minn.	7.1	8.4	7.9	7.9	8.1	7.7	7.4	7.2	7.6	8.5	9.3	9.6	10.6	11.1	11.4	11.4	10.0	9.3	8.5	8.5	8.4	7.8	8.8		
Eastport, Me.	5.7	5.9	5.8	6.3	6.1	6.6	6.4	6.8	7.2	7.7	8.3	8.2	8.5	8.4	8.7	9.0	9.1	7.5	7.0	6.6	6.5	6.3	6.0	7.1	
Elkins, W. Va.	1.3	1.4	1.2	1.4	1.4	1.3	1.4	2.3	2.2	2.8	4.5	5.5	6.2	6.8	6.1	6.0	5.5	4.9	4.9	4.1	3.7	3.0	3.0	3.0	
El Paso, Tex.	10.5	11.1	10.8	10.1	9.5	9.1	8.8	8.2	7.5	8.5	9.3	9.4	10.0	11.7	11.1	10.1	9.0	8.5	8.9	9.7	10.5	9.2	9.2	9.2	
Erie, Pa.	7.4	7.6	7.8	7.6	7.1	7.3	7.0	7.6	7.8	8.4	9.7	9.9	9.7	10.1	9.7	9.0	8.7	8.0	7.2	7.0	7.6	7.6	8.1		
Escanaba, Mich.	5.9	5.4	5.5	5.7	6.0	6.3	6.2	6.5	6.3	6.8	8.0	8.3	8.9	9.0	9.3	9.5	9.8	9.4	9.5	9.8	9.7	9.7	9.6		
Eureka, Cal.	3.8	3.6	3.6	3.7	3.4	3.4	3.4	3.4	3.1	2.7	3.1	3.8	4.7	6.1	7.5	8.5	9.4	10.3	9.6	9.1	7.8	6.5	4.7	5.4	
Evansville, Ind.	3.7	3.5	3.7	3.9	4.2	4.5	4.2	5.0	5.4	5.4	6.2	6.1	6.4	6.5	6.7	7.5	7.5	6.7	5.6	4.4	3.4	3.6	2.9	5.1	
Fort Canby, Wash.	9.2	9.2	9.8	8.7	8.8	7.3	7.5	7.7	6.7	6.2	6.9	7.4	8.6	9.5	9.1	9.7	9.4	8.2	9.2	9.4	9.4	9.2	8.6	8.6	
Fort Smith, Ark.	4.8	4.4	4.5	4.6	4.5	5.1	4.6	4.9	5.2	5.5	5.5	6.2	6.4	6.3	7.2	7.1	7.4	5.6	5.0	5.0	4.6	3.8	3.8	5.3	
Fresno, Cal.	10.6	10.6	10.0	9.4	8.2	7.1	7.0	6.0	4.8	4.2	4.2	4.5	4.4	5.0	5.2	5.6	6.8	6.6	6.6	7.1	7.6	9.4	10.4	6.9	
Galveston, Tex.	6.8	6.9	7.2	6.8	6.8	6.6	5.5	6.7	7.8	8.2	7.7	7.9	8.9	9.1	9.3	9.3	8.8	8.0	6.7	6.8	7.1	7.0	7.5		
Grand Haven, Mich.	5.4	5.9	5.5	5.2	5.1	5.4	5.8	7.0	8.4	8.9	8.5	8.7	9.3	9.5	9.4	9.5	9.5	8.7	8.5	8.7	8.5	8.7	8.6	9.4	
Grand Junction, Colo.	5.4	5.4	5.4	5.1	5.9	6.1	5.4	4.9	4.5	6.2	7.1	7.6	8.2	8.6	9.5	10.5	10.6	10.7	10.2	10.0	9.4	9.2	9.5	9.4	
Green Bay, Wis.	4.4	4.2	4.1	4.7	5.0	4.9	4.5	4.9	6.5	7.1	7.6	8.3	8.5	9.											

TABLE V.—Average wind movement, etc.—Continued.

Stations.																										
	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.	
New Haven, Conn....	5.3	5.9	5.5	5.5	4.9	5.0	5.8	6.5	7.6	8.0	8.5	8.8	9.9	10.0	9.5	9.0	8.2	7.1	6.1	5.8	5.0	4.5	5.2	5.2	6.6	
New Orleans, La....	4.8	4.5	4.9	4.5	5.0	4.8	4.7	5.0	5.8	6.1	6.3	6.8	7.9	8.7	8.6	8.3	8.0	7.3	5.6	5.0	4.7	4.6	5.0	4.7	6.6	
New York, N. Y....	7.9	8.2	7.4	7.5	8.0	7.9	8.6	9.0	9.0	9.3	9.5	9.3	9.7	10.0	10.0	10.2	11.2	9.9	10.0	9.8	10.1	9.5	8.3	7.4	9.1	
Norfolk, Va....	8.1	7.8	7.5	7.8	7.8	7.4	7.7	8.5	9.5	9.6	10.2	10.8	11.2	11.3	11.5	11.9	12.1	11.3	11.1	10.1	9.8	9.0	9.3	8.1	9.5	
Northfield, Vt....	6.0	5.5	5.5	5.5	4.6	4.0	3.8	4.4	6.7	8.5	9.3	9.9	10.4	10.7	10.7	11.5	11.1	9.4	7.1	6.3	6.5	6.8	6.4	6.8	7.4	
North Platte, Nebr....	8.8	8.5	8.3	7.8	6.9	6.4	6.5	6.1	6.8	7.9	9.3	10.4	11.4	11.8	10.8	10.3	10.4	11.2	11.1	10.6	9.2	9.3	10.1	8.9	9.1	
Oklahoma, Okla....	7.5	7.7	7.1	6.9	7.1	6.8	6.9	7.5	8.3	9.8	10.4	10.4	9.5	9.7	10.0	10.0	10.0	9.9	9.2	8.1	6.7	7.3	7.6	8.8	8.8	
Omaha, Nebr....	6.2	6.8	6.4	7.8	6.4	6.3	5.5	6.0	6.4	7.6	7.2	7.8	8.7	8.8	8.7	8.9	9.7	9.1	8.3	6.6	6.0	5.9	6.5	7.2	7.2	7.2
Oswego, N. Y....	7.7	7.1	7.1	7.0	7.6	7.2	7.7	7.6	6.7	7.3	8.1	9.2	9.5	9.8	8.7	8.2	7.8	7.0	6.0	5.7	5.9	6.5	7.2	7.0	7.5	
Palestine, Tex....	4.8	5.0	5.1	5.1	4.9	4.5	4.6	5.0	6.2	7.5	7.5	6.8	6.6	6.5	6.6	6.9	6.8	6.9	6.1	4.4	3.5	3.5	4.5	4.9	5.6	
Parkersburg, W. Va....	2.4	2.6	2.1	3.7	2.5	2.8	3.0	3.4	4.2	4.6	5.2	5.3	6.0	6.2	6.8	6.7	6.2	5.7	4.6	3.4	2.9	3.2	3.3	2.8	4.1	
Pensacola, Fla....																										
Phoenix, Ariz....	4.0	3.4	3.1	3.6	3.3	3.7	3.5	3.6	3.7	4.5	4.6	4.6	4.8	4.9	5.1	5.6	6.0	6.0	6.0	5.7	4.9	4.7	4.3	4.4	4.5	
Philadelphia, Pa....	7.5	7.5	7.8	7.5	7.5	8.1	8.0	9.5	9.5	9.4	9.2	9.8	9.7	9.7	9.7	9.7	9.4	8.5	8.7	8.5	8.3	7.0	6.8	8.6	8.6	
Pierre, S. Dak....	10.8	10.2	9.7	9.1	8.8	8.5	9.0	10.1	10.7	13.0	14.6	15.4	15.6	14.7	14.7	13.9	13.6	14.0	13.9	13.8	11.8	11.4	11.5	12.0	12.1	
Pittsburg, Pa....	3.5	2.2	1.9	2.3	2.4	2.8	3.8	3.5	3.9	4.3	4.6	4.5	4.5	5.0	4.5	4.7	4.8	4.6	4.1	3.6	3.2	3.0	2.9	3.6	3.6	
Pocatello, Idaho....	8.3	9.7	11.1	11.0	10.2	9.5	10.1	9.8	8.9	8.3	8.7	8.5	9.5	10.6	10.8	11.6	12.9	12.5	12.1	11.1	8.0	6.9	7.5	10.0	10.0	
Point Reyes Lt., Cal....	22.7	22.5	21.4	20.9	19.6	18.6	17.6	18.0	17.8	17.7	16.8	15.9	14.4	13.4	14.5	15.6	16.7	17.0	17.8	19.9	21.0	22.6	23.6	23.2	18.7	
Port Crescent, Wash....	3.6	3.4	3.2	3.1	2.8	2.9	2.5	2.6	2.8	2.5	2.8	4.0	5.3	5.9	6.5	6.9	7.3	7.2	6.6	6.9	6.5	6.0	4.9	4.5	4.6	
Port Huron, Mich....	7.6	7.4	6.7	6.8	6.9	6.8	7.0	7.2	8.1	8.9	9.6	10.2	11.8	11.6	11.5	12.0	12.0	11.5	10.7	9.6	9.0	8.7	8.4	7.5	9.1	
Portland, Me....	4.3	3.9	4.1	4.1	4.6	4.1	4.2	4.9	5.5	6.2	6.8	7.5	8.7	10.1	9.8	8.9	8.2	7.4	6.8	5.5	4.7	4.5	4.5	6.0	6.0	
Portland, Oreg....	7.8	7.6	6.1	5.5	5.1	5.1	4.6	4.7	4.8	4.8	5.4	6.1	7.0	8.0	8.2	8.3	8.6	9.2	8.2	8.9	8.5	7.2	8.6	8.6	8.6	
Pueblo, Colo....	5.5	5.5	4.9	4.5	4.2	4.4	4.1	3.7	5.5	5.7	4.6	5.9	8.3	9.0	10.3	11.3	10.5	8.7	8.9	7.8	7.0	6.2	6.5	6.5	6.5	
Raleigh, N. C....	4.3	5.0	5.2	5.0	4.8	4.7	4.6	5.4	5.7	6.1	6.5	6.8	7.2	7.0	7.0	6.5	6.2	5.8	4.9	5.4	5.0	5.1	5.0	5.6	5.6	
Rapid City, S. Dak....	4.9	4.7	5.1	5.1	4.7	4.2	4.5	4.7	4.6	4.9	5.0	5.5	6.0	6.3	6.1	6.4	6.1	6.5	6.5	4.6	4.7	5.3				
Red Bluff, Cal....	6.4	6.3	6.1	5.5	4.7	4.4	4.2	4.2	3.8	4.0	5.0	5.3	5.1	5.9	6.3	7.1	8.0	8.1	8.2	8.4	7.8	7.1	6.8	6.1	6.1	
Richmond, Va....	5.3	5.0	4.9	5.2	5.2	5.2	5.5	6.4	6.9	7.3	7.4	7.5	7.7	7.9	8.2	8.2	8.1	7.4	6.4	5.5	5.7	5.3	4.9	6.3	6.3	
Rochester, N. Y....	4.1	4.0	3.8	4.5	4.4	4.4	4.1	5.3	5.4	5.7	5.5	6.0	6.3	7.5	8.3	8.6	8.2	7.6	6.9	5.2	4.0	3.8	3.9	4.1	5.4	
Roseburg, Oreg....	2.4	1.7	1.7	1.8	1.5	1.8	2.1	2.0	2.0	2.0	2.6	2.8	3.5	4.3	4.9	5.8	5.9	7.4	7.5	8.0	8.6	7.3	4.3	4.0	4.0	
Sacramento, Cal....	10.5	9.9	9.6	10.4	10.5	10.1	10.5	10.2	9.5	9.8	9.7	9.6	9.9	9.6	9.9	10.5	10.9	11.2	11.8	12.0	11.8	11.1	10.6	10.7	10.4	
St. Louis, Mo....	7.3	6.4	6.2	5.9	6.4	6.3	5.8	5.6	6.2	6.9	7.2	7.7	8.0	7.7	8.5	8.2	8.5	8.5	7.6	6.7	7.0	7.3	7.0	7.2	7.1	
St. Paul, Minn....	5.7	5.3	5.5	5.1	4.0	4.5	4.4	5.0	5.4	6.7	8.2	8.5	8.7	9.4	9.7	9.9	9.3	8.9	8.0	7.4	7.0	6.6	6.8	6.9	6.9	
Salt Lake City, Utah....	6.0	5.1	5.3	4.9	4.4	3.8	3.0	4.3	4.3	3.1	4.0	5.6	9.2	8.7	10.0	10.2	10.6	10.3	10.2	8.6	6.9	6.8	6.1	6.1	6.6	
San Antonio, Tex....	9.0	7.1	5.6	4.5	3.9	3.4	3.8	3.7	5.1	5.3	7.3	7.4	7.1	7.6	8.3	8.4	8.6	8.6	8.8	10.2	11.3	13.5	14.0	11.9	8.1	
San Diego, Cal....	2.9	2.7	2.8	2.9	3.2	3.1	3.0	2.9	3.3	3.2	3.5	5.8	8.2	10.2	11.1	11.5	11.3	10.4	9.6	8.5	8.6	8.6	8.6	8.6	6.1	
Sandusky, Ohio....	7.3	7.0	6.8	6.7	6.4	6.2	6.4	5.9	6.8	6.9	7.1	7.7	8.6	8.4	8.7	8.5	8.5	8.9	8.5	7.6	6.7	6.7	6.6	6.6	7.1	
Sandy Hook, N. J....	11.9	13.2	12.5	13.4	13.0	14.2	13.7	13.9	13.2	12.1	11.7	10.8	11.5	12.9	13.3	13.4	13.4	13.3	11.9	12.8	13.0	13.2	12.3	12.4	12.6	
San Francisco, Cal....	12.2	11.7	11.9	11.2	10.7	9.9	9.4	9.2	9.0	9.5	10.0	10.5	11.5	12.3	12.9	13.0	13.2	13.0	12.9	12.2	12.6	12.0	12.4	14.4		
San Luis Obispo, Cal....	2.8	2.2	2.3	2.3	2.3	2.2	2.6	2.6	3.0	3.0	3.3	3.9	4.6	4.8	5.5	6.6	8.3	9.3	9.5	8.6	7.6	5.9	5.0	4.5	4.9	
Santa Fe, N. Mex....	4.7	4.0	3.8	4.3	3.6	3.6	3.4	3.4	3.8	3.7	5.1	5.3	7.4	7.1	7.6	8.4	9.1	9.3	8.2	7.7	6.5	5.3	4.5	4.9	5.6	
Sault Ste. Marie, Mich....	4.4	4.4	4.3	3.8	3.7	3.8	4.0	4.5	5.5	6.3	7.5	8.5	9.0	9.5	10.7	11.1	11.3	10.8	9.4	7.9	7.2	5.6	4.6	4.7	6.8	
Savannah, Ga....	6.7	6.8	6.6	6.4	6.8	6.3	6.2	6.7	7.9	8.8	8.4	9.4	10.5	10.9	11.0	11.9	12.0	11.9	10.8	8.2	7.9	7.8	7.4	7.0	8.2	
Seattle, Wash....	3.9	3.4	3.6	3.8	3.8	3.5	3.5	3.5	3.7	3.9	4.6	5.0	5.4	5.7	6.0	6.7	6.7	7.1	6.6	5.9	5.2	4.8	4.5	4.9	4.9	
Shreveport, La....	5.1	4.5	3.9	3.6	3.4	3.2	3.5	3.6	5.5	6.6	6.0	5.8	5.9	6.2	6.4	6.4	7.3	7.3	7.1	5.9	5.5	5.2	5.0	5.3	5.3	
Sioux City, Iowa....	11.3	10.9	10.5	10.6	9.6	9.4	9.9	10.0	9.9	11.7	12.7	12.5	14.6	14.9	15.0	15.6	14.1	12.9	12.0	11.4	11.0	11.1	10.8	12.0		
Spokane, Wash....	4.7	4.3	4.0	4.8	4.8	5.2	4.6	4.8	4.1	4.8	6.5	6.6	7.2	7.2	7.5	7.9	7.4	7.6	7.1	6.8	6.5	5.7	4.9	5.8	5.8	
Springfield, Ill....	6.3	6.2	5.7	5.9	5.1	5.3	5.9	6.0	6.5	6.1	7.0	7.9	8.2	8.6	8.3	8.1	8.1	7.2	5.5	5.3	6.0	6.2	6.6	6.6	6.6	
Springfield, Mo....	8.3	8.4	8.0	7.7	7.6	7.4	7.1	7.5	8.6	8.5	8.5	8.5	8.0	9.0</td												

TABLE VI.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of August, 1899.

Stations.	Component direction from—				Resultant.		Stations.	Component direction from—				Resultant.	
	N.	S.	E.	W.	Direction from—	Duration.		N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>													
Eastport, Me.	18	21	13	20	s. 67 w.	8	Williston, N. Dak.	18	16	17	19	n. 45 w.	8
Portland, Me.	19	25	12	19	s. 49 w.	9	Upper Mississippi Valley.						
Northfield, Vt.	14	37	9	6	s. 7 e.	23	St. Paul, Minn.	16	28	23	11	s. 45 e.	17
Boston, Mass.	19	19	23	15	e.	8	La Crosse, Wis. †	7	15	12	7	s. 32 e.	9
Nantucket, Mass.	15	27	21	14	s. 30 e.	14	Davenport, Iowa.	17	18	33	11	s. 87 w.	22
Woods Hole, Mass.	23	21	21	12	s. 77 e.	9	Des Moines, Iowa.	13	32	26	5	s. 48 e.	28
Block Island, R. I.	21	20	24	16	s. 83 e.	8	Dubuque, Iowa.	16	24	22	15	s. 41 e.	11
New Haven, Conn.	22	21	25	11	s. 86 e.	14	Keokuk, Iowa.	12	26	25	15	s. 36 e.	17
<i>Middle Atlantic States.</i>							Cairo, Ill.	19	27	18	11	s. 41 e.	11
Albany, N. Y.	19	29	14	13	s. 6 e.	10	Springfield, Ill.	15	19	24	14	s. 74 e.	15
Binghamton, N. Y. †	14	7	10	8	n. 16 e.	7	Hannibal, Mo. †	7	10	11	7	s. 53 e.	5
New York, N. Y.	21	11	33	18	n. 62 e.	22	St. Louis, Mo.	10	23	23	9	s. 71 e.	13
Harrisburg, Pa. †	15	5	13	7	s. 31 e.	12	<i>Missouri Valley.</i>						
Philadelphia, Pa.	22	14	26	14	s. 56 e.	14	Columbia, Mo. *	6	11	19	2	s. 74 e.	18
Atlantic City, N. J.	19	19	28	10	e.	18	Kansas City, Mo.	13	29	33	5	s. 60 e.	22
Cape May, N. J.	26	17	23	10	s. 55 e.	16	Springfield, Mo.	7	33	27	9	s. 35 e.	22
Baltimore, Md.	22	14	29	12	n. 63 e.	18	Lincoln, Nebr.	12	29	34	6	s. 50 e.	23
Washington, D. C.	27	16	23	9	n. 52 e.	18	Omaha, Nebr.	12	23	39	5	s. 72 e.	26
Lynchburg, Va.	27	13	25	13	n. 41 e.	18	Sioux City, Iowat.	8	15	10	3	s. 45 e.	10
Norfolk, Va.	20	21	30	3	s. 88 e.	27	Pierre, S. Dak.	14	21	34	9	s. 74 e.	19
Richmond, Va.	20	23	16	3	n. 62 e.	15	Huron, S. Dak.	17	26	27	10	s. 63 e.	19
<i>South Atlantic States.</i>							Yankton, S. Dak. †	5	13	11	7	s. 27 e.	9
Charlotte, N. C.	22	17	29	14	n. 73 e.	16	<i>Northern Slope.</i>						
Hatteras, N. C.	25	18	14	17	n. 23 w.	8	Hayre, Mont.	16	14	19	29	n. 79 w.	10
Raleigh, N. C.	23	14	23	12	n. 38 e.	14	Miles City, Mont.	19	15	21	20	n. 14 e.	4
Wilmington, N. C.	15	17	26	26	n. 72 w.	6	Helena, Mont.	11	25	5	35	s. 67 w.	36
Charleston, S. C.	15	18	17	24	s. 67 w.	8	Kalispell, Mont.	18	23	14	26	s. 72 w.	13
Augusta, Ga.	17	25	23	16	s. 41 e.	11	Rapid City, S. Dak.	16	20	23	20	s. 87 w.	5
Savannah, Ga.	20	19	9	23	s. 86 w.	14	Cheyenne, Wyo.	16	25	8	26	s. 63 w.	20
Jacksonville, Fla.	13	25	9	27	s. 56 w.	22	Lander, Wyo.	14	26	13	24	s. 43 w.	16
<i>Florida Peninsula.</i>							North Platte, Nebr.	10	23	25	12	s. 34 e.	23
Jupiter, Fla.	16	29	18	23	s. 21 w.	14	<i>Middle Slope.</i>						
Key West, Fla.	13	14	31	15	s. 87 e.	16	Denver, Colo.	15	27	9	21	s. 45 w.	17
Tampa, Fla.	17	10	20	27	n. 45 w.	10	Pueblo, Colo.	20	20	19	22	w.	3
<i>Eastern Gulf States.</i>							Concordia, Kans.	8	32	34	3	s. 52 e.	22
Atlanta, Ga.	21	10	18	25	n. 32 w.	13	Dodge, Kans.	9	32	32	6	s. 48 e.	25
Macon, Ga. †	8	5	10	10	n.	3	Wichita, Kans.	7	30	29	4	s. 47 e.	24
Pensacola, Fla. †	17	5	5	15	n. 40 w.	16	Oklahoma, Okla.	2	43	22	1	s. 27 e.	46
Mobile, Ala.	25	23	1	21	n. 83 w.	17	<i>Southern Slope.</i>						
Montgomery, Ala.	20	18	19	20	n. 27 w.	2	Abilene, Tex.	2	43	37	13	s. 41 e.	55
Meridian, Miss. †	7	13	7	14	s. 49 w.	9	Amarillo, Tex.	2	46	14	13	s. 1 e.	44
Vicksburg, Miss.	15	27	18	22	s. 18 w.	13	<i>Southern Plateau.</i>						
New Orleans, La.	14	26	8	23	s. 51 w.	19	El Paso, Tex.	22	10	18	27	n. 37 w.	15
<i>Western Gulf States.</i>							Santa Fe, N. Mex.	14	24	28	15	s. 52 e.	16
Shreveport, La.	8	30	21	16	s. 13 e.	23	Flagstaff, Ariz.	12	20	3	42	s. 79 w.	40
Fort Smith, Ark.	11	8	40	8	n. 85 e.	22	Phoenix, Ariz.	17	7	24	23	n. 6 e.	10
Little Rock, Ark.	17	29	20	12	s. 34 e.	14	Yuma, Ariz.	7	20	17	30	s. 45 w.	18
Corpus Christi, Tex.	6	45	31	3	s. 33 e.	53	Independence, Cal.	14	25	13	26	n. 50 w.	17
Fort Worth, Tex.	1	21	6	12	s. 17 w.	21	<i>Middle Plateau.</i>						
Galveston, Tex.	6	40	6	26	s. 30 w.	32	Carson City, Nev.	12	17	5	29	s. 73 w.	24
Palestine, Tex.	9	39	10	20	s. 18 w.	54	Winnebucca, Nev.	14	21	14	20	s. 66 w.	18
San Antonio, Tex.	2	42	37	1	s. 42 e.	54	Cedar City, Utah.	4	42	20	20	s. 43 e.	28
<i>Ohio Valley and Tennessee.</i>							Salt Lake City, Utah.	17	31	22	9	s. 43 e.	19
Chattanooga, Tenn.	21	17	14	25	n. 70 w.	12	Grand Junction, Colo.	16	23	25	14	s. 63 e.	16
Knoxville, Tenn.	24	18	28	12	n. 25 e.	23	<i>Northern Plateau.</i>						
Memphis, Tenn.	19	24	15	21	s. 50 w.	8	Baker City, Oreg.	20	25	12	18	s. 50 w.	8
Nashville, Tenn.	30	13	20	17	n. 10 e.	17	Boise, Idaho.	18	15	21	24	n. 45 w.	4
Lexington, Ky. †	8	13	15	5	s. 63 e.	11	Pocatello, Idaho.	8	32	14	21	s. 16 w.	25
Louisville, Ky.	24	23	17	10	s. 82 e.	7	Spokane, Wash.	14	29	10	22	s. 41 w.	18
Evansville, Ind. †	10	9	17	2	s. 86 e.	15	Walla Walla, Wash.	6	37	5	21	s. 27 w.	35
Indianapolis, Ind.	20	21	25	11	s. 86 e.	14	<i>North Pacific Coast Region.</i>						
Cincinnati, Ohio.	15	16	25	16	n. 77 e.	9	Fort Canby, Wash.	31	10	3	20	n. 35 w.	29
Columbus, Ohio.	25	15	27	10	n. 60 e.	20	Neah, Wash.	4	10	11	45	s. 80 w.	31
Pittsburg, Pa.	32	18	20	20	n.	4	Port Crescent, Wash. *	0	1	6	24	s. 87 w.	18
Parkersburg, W. Va.	27	18	23	8	n. 59 e.	18	Seattle, Wash.	16	26	17	16	s. 6 e.	10
Elkins, W. Va.	23	16	18	17	n. 8 e.	7	Portland, Oreg.	24	23	9	25	s. 83 w.	16
<i>Lower Lake Region.</i>							Roseburg, Oreg.	34	7	22	13	n. 18 e.	28
Buffalo, N. Y.	20	15	21	22	s. 11 w.	5	<i>Middle Pacific Coast Region.</i>						
Oswego, N. Y.	18	30	21	17	s. 13 e.	18	Eureka, Cal.	27	18	4	16	n. 53 w.	15
Rochester, N. Y.	18	17	18	27	n. 83 w.	8	Mount Tamalpais, Cal.	19	2	1	44	s. 68 w.	46
Erie, Pa.	21	18	17	17	n.	3	Red Bluff, Cal.	13	33	7	3	s. 39 e.	36
Cleveland, Ohio.	23	13	27	16	n. 48 e.	15	Sacramento, Cal.	4	34	6	27	s. 35 w.	37
Sandusky, Ohio.	17	16	21	13	s. 57 e.	18	San Francisco, Cal.	1	20	1	53	s. 70 w.	56
Toledo, Ohio.	18	14	23	16	n. 60 e.	8	<i>South Pacific Coast Region.</i>						
Detroit, Mich.	21	16	23	15	n. 58 e.	9	Fresno, Cal.	38	4	0	45	n. 57 w.	54
<i>Upper Lake Region.</i>							Los Angeles, Cal.	2	19	2	43	s. 67 w.	44
Alpena, Mich.	23	21	15	16	n. 27 w.	2	San Diego, Cal.	32	8	2	37	n. 56 w.	42
Escanaba, Mich.	27	22	14	9	n. 45 e.	7	San Luis Obispo, Cal.	16	10	4	38	n. 80 w.	34
Grand Haven, Mich.	22	15	23	20	n. 39 e.	8	<i>Weed Indies.</i>						
Marquette, Mich.	22	21	19	16	n. 72 e.	3	Basseterre, St. Kitts Island.	14	1	56	0	n. 78 e.	58
Port Huron, Mich.	26	21	18	8	n. 63 e.	11	Bridgetown, Barbados.	9	7	53	0	n. 62 e.	53
Sault Ste. Marie, Mich.	12	10	29	22	n. 74 e.	7	Cienfuegos, Cuba.	37	7	30	3	n. 43 e.	40
Chicago, Ill. †	22	17	35	11	n. 78 e.	24	Havana, Cuba.	14	9	46	7	n. 83 e.	39
Milwaukee, Wis.	19	22	21	19	s. 34 e.	4	Kingston, Jamaica.	42	9	19	6	n. 65 e.	60
Green Bay, Wis.	16	22	25	11	s. 67 e.	15	Puerto Principe, Cuba.	18	11	40	7	n. 75 e.	34
Duluth, Minn.	37	7	24	16	n. 15 e.	31	Port of Spain, Trinidad.	10	8	50	1	n. 88 e.	49
<i>North Dakota.</i>							San Juan, Porto Rico.	2	20	51	2	s. 70 e.	52
Moorhead, Minn.	21	22	28	14	s. 98 e.	14	Santiago de Cuba, Cuba.	30	19	22	4	n. 59 e.	21
Bismarck, N. Dak.	18	8	30	17	n. 52 e.	16	Willemstad, Curacao.	8	8	58	0	s. 86 e.	58

* From observations at 8 p. m. only.

† From observations at 8 a. m. only.

TABLE VII.—*Thunderstorms and auroras, August, 1899.*

States.	No. of stations.																														Total. No.	Days.				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
Alabama.....	58	T.	3	2	2	2	3	8	5	4	3	4	4	6	4	4	7	5	2	4	7	8	4	5	8	7	7	5	5	2	2	4	122	30		
Arizona.....	58	A.	9	18	5	3	7	6	4	3	2	1	3	1	1	8	12	...	1	...	1	...	1	1	5	9	14	5	5	5	0	115	24			
Arkansas.....	57	T.	1	1	4	4	1	4	8	...	...	3	15	8	3	3	3	8	4	1	...	1	3	9	8	9	1	1	3	3	0	104	25	
California.....	189	T.	2	3	19	17	6	10	3	...	...	1	...	1	2	14	13	8	3	...	2	1	...	5	11	10	14	7	172	22				
Colorado.....	73	A.	13	15	7	13	10	10	2	1	...	5	13	2	14	13	8	3	...	2	1	...	5	11	10	14	7	0	85	11						
Connecticut	23	T.	3	...	3	...	...	1	1	...	2	...	...	...	1	8	4	8	3	...	...	...	...	...	...	...	...	...	...	...	88	10		
Delaware.....	5	A.	1	...	1	...	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	0	9	0	
Dist. of Columbia	4	T.	1	1	1	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	...	1	1	0	10	0		
Florida.....	45	A.	2	4	2	2	2	9	11	18	9	5	9	10	10	5	4	8	3	8	6	8	9	5	5	6	5	8	11	8	8	7	10	218	31	
Georgia.....	54	A.	5	2	...	3	5	4	3	4	6	4	6	4	3	4	...	2	1	2	3	4	6	2	1	1	3	3	0	90	0	0	26	T.		
Idaho.....	27	T.	1	...	2	4	3	8	8	4	...	1	2	...	3	1	1	3	5	2	6	1	...	1	2	3	1	1	1	1	1	61	20			
Illinois.....	92	T.	18	3	10	18	9	9	9	14	19	16	3	5	1	1	...	1	1	19	2	...	2	9	3	4	9	...	1	1	186	24				
Indiana.....	55	A.	5	11	4	18	12	2	1	17	8	13	8	3	...	...	...	...	3	7	...	1	11	11	...	1	1	181	18	1	1	A.		
Indian Territory.	8	T.	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	0	0	
Iowa.....	126	T.	26	11	12	13	4	...	8	5	14	1	7	9	8	...	...	1	5	11	20	8	14	18	7	3	1	4	4	204	0	0	23	A.
Kansas.....	74	T.	...	8	15	5	4	7	...	16	7	12	18	12	10	1	...	2	1	2	...	2	1	11	9	18	9	5	1	1	1	1	162	24		
Kentucky.....	45	T.	1	...	3	14	7	...	1	7	9	11	13	5	...	1	...	1	6	...	1	9	1	1	1	1	1	1	1	1	91	0	0	17	T.	
Louisiana.....	45	T.	5	5	8	8	1	3	1	2	8	6	4	9	12	5	17	5	9	5	7	10	9	11	6	5	18	7	15	7	3	5	4	210	31	
Maine.....	17	A.	1	...	2	5	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	5	0
Maryland.....	39	T.	22	15	13	2	...	1	9	8	3	10	18	...	1	...	...	18	2	...	1	16	6	1	...	3	1	...	1	1	141	17		
Massachusetts.....	54	A.	6	...	4	...	...	...	1	...	1	...	...	...	...	...	...	...	3	18	6	2	...	...	...	...	...	...	...	...	...	41	8	0
Michigan.....	107	A.	9	3	13	2	...	1	5	19	23	4	...	...	...	...	...	6	10	7	8	1	3	1	8	1	2	4	4	7	135	22		
Minnesota.....	64	T.	11	9	3	...	1	3	4	14	10	10	12	1	...	1	4	11	18	23	12	...	8	19	1	6	8	9	5	6	5	208	25			
Mississippi.....	42	T.	2	4	9	1	...	3	4	3	4	4	3	4	13	8	10	7	5	6	4	3	3	5	1	8	5	5	7	6	5	2	150	30		
Missouri.....	89	T.	2	3	19	20	12	11	11	15	5	7	17	17	4	...	4	1	13	...	11	9	11	8	15	9	...	0	224	22						
Montana.....	37	T.	6	4	...	4	3	4	7	6	2	...	3	1	6	1	...	2	2	4	7	...	1	...	1	1	1	1	1	1	1	64	18			
Nebraska.....	145	A.	6	10	20	19	4	3	17	5	1	11	2	23	13	1	...	4	4	5	6	1	1	5	10	2	9	17	9	1	1	4	5	219	30	
Nevada.....	45	A.	8	8	3	4	5	2	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	32	8
New Hampshire.	20	T.	5	1	1	4	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	1	7	8	1	1	...	2	1	...	27	10		
New Jersey.....	50	T.	28	5	1	14	6	20	5	...	1	2	21	7	2	2	1	11	3	129	16	
New Mexico.....	88	T.	5	4	2	...	3	2	1	3	...	...	1	1	3	1	2	...	2	1	1	1	2	...	1	1	0	83	17					
New York.....	103	T.	42	1	4	6	1	...	13	6	23	1	...	...	...	...	...	37	9	5	1	2	11	4	...	2	1	...	1	1	...	165	16	
North Carolina..	58	T.	3	2	1	...	1	6	2	3	4	8	4	3	4	7	2	...	1	4	7	1	3	1	6	6	3	...	1	1	1	1	88	24		
North Dakota...	40	T.	4	...	3	1	5	2	2	6	1	...	3	3	3	2	3	5	1	...	5	1	...	1	1	...	1	1	...	48	17					
Ohio.....	124	T.	9	15	16	11	1	...	3	10	4	3	1	...	4	1	...	1	17	...	1	4	20	...	2	2	1	1	1	1	1	10	16			
Oklahoma.....	22	A.	...	...	...	1	...	...	...	...	...	...	3	...	...	...	...	1	2	4	...	...	1	...	...	...	...	...	...	...	...	12	0	
Oregon.....	71	T.	...	1	...	2	1	...	...	2	2	...	...	2	1	3	3	2	...	...	...	1	...	...	...	...	...	...	...	...	20	11		
Pennsylvania....	100	T.	1	32	2	18	16	1	...	2	30	18	15	7	...	...	...	33	1	1	1	12	80	21	4	...	...	...	...	...	...	...	240	19
Rhode Island....	8	T.	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	5	0	4
South Carolina..	44	T.	6	1	...	1	1	7	9	2	9	10	6	6	1	...	...	3	3	12	8	11	11	6	12	2	2	6	6	6	136	24		
South Dakota...	52	A.	8	7	2	1	1	6	8	...	1	3	...	4	1	1	6	10	10	12	1	1	6	2	3	1	2	2	7	10	2	118	27			
Tennessee....	61	T.	2	...	2	11	9	10	2	6	6	5	6	8	2	7	5	1	3	1	5	1	2	2	17	9	7	3	1	1	1	1	138	26		
Texas.....	83	A.	1	1	...	...	...	1	...	1	...	1	...	1	5	6	4	6	2	...	2	2	...	4	...	4	7	4	7	0	47	15		
Utah.....	34	T.	6	8	5	7	4	11	2	2	...	1	...	1	2	...	1	1	...	1	1	1	1	1	5	2	1	1	68	21						
Vermont.....	14	T.	6	...	1	...	...	...	...	...	...	...	3	...	...	...	...	...	...	2	3	2	2	...	...	...	...	...	...	...	...	19	0	
Virginia.....	47	A.	4	1	3	18	7	...	...	4	13	5	9	9	...	...	...	4	...	...	...	12	9	...	...	...	...	...	...	...	97	13		
Washington....	55	T.	4	...	...	...	...	1	...	8	...	5	...	5	...	1	...	1	...	...	1	...	1	...	...	...	...	...	...	...	16	7		
West Virginia...	88	T.	10	9	5	5	2	...	...	7	2	3	3	2	...	...	1	...	1	4	...	1	8	10	1	...	1	1	1	1	1	73	16	
Wisconsin....	60	A.	9	3	9	5	11	10	15	1	...	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	131	21		
Wyoming.....	18	T.	1	...	2	1	1	1	1	1	1	...	2	1	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	21	0			
Sums	2,804	T.	169	302	185	244	250	171	165	114	158	237	217	218	203	210	101	74	88	96	115	135	220	154	158	114	143	264	188	98	78	81	99	4,043	49	
		A.	1	1	5	5	1	2	0	0	2	0	0	0	2	1	0	1	0	0	1	1	0	0	1	1	0	1	1	0	1	1	1	1	1	1

TABLE VIII.—Average hourly sunshine (in percentages), August, 1899.

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.														Hours of sunshine.						
		A. M.							P. M.							Total.						
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	Personal estimate.	
Albany, N. Y.	T. P.	56	32	31	46	67	83	86	89	89	86	87	81	67	57	50	44	295.9	431.3	69	43	
Atlanta, Ga.	T. P.	63	66	74	83	90	91	94	94	66	65	63	58	51	45	34	0	322.4	415.8	78	53	
Atlantic City, N. J.	T. P.	47	43	45	53	65	65	61	61	75	76	65	58	47	34	27	27	325.0	428.2	55	39	
Baltimore, Md.	T. P.	24	33	49	52	61	70	73	73	81	80	76	70	58	52	38	37	247.7	429.4	58	50	
Binghamton, N. Y.	T. P.	18	20	35	51	65	69	67	61	58	71	71	74	67	48	37	37	267.9	440.0	61	62	
Bismarck, N. Dak.	T. P.	34	46	57	65	69	71	71	73	77	85	85	82	75	73	82	82	326.1	438.6	75	61	
Bolse, Idaho	T. P.	60	59	70	68	74	71	70	73	68	65	59	55	45	44	40	42	210.1	429.4	49	48	
Boston, Mass.	T. P.	25	25	31	46	50	60	68	68	68	66	65	61	51	50	38	37	327.4	431.3	78	66	
Buffalo, N. Y.	T. P.	46	55	62	88	90	91	91	91	88	91	91	91	83	67	61	59	206.4	414.0	50	45	
Charleston, S. C.	T. P.	42	41	47	65	71	56	63	63	58	51	46	51	33	33	36	36	206.4	414.0	50	45	
Chattanooga, Tenn.	T. P.	48	41	63	71	80	88	87	87	88	76	71	66	58	37	33	100	273.4	417.1	68	59	
Cheyenne, Wyo.	T. P.	50	42	64	87	95	90	89	89	87	75	73	68	59	44	32	10	306.1	427.4	75	66	
Chicago, Ill.	T. P.	50	52	58	70	72	79	82	82	88	87	88	83	73	75	53	53	325.9	423.2	70	57	
Cincinnati, Ohio	T. P.	50	52	58	80	82	82	82	82	88	87	88	83	73	75	51	51	300.0	429.4	70	56	
Cleveland, Ohio	T. P.	54	65	77	82	82	87	87	87	92	94	94	91	91	95	93	93	357.4	428.2	84	74	
Columbia, Mo.	T. P.	100	63	65	68	72	87	88	90	93	92	94	93	93	95	93	93	318.9	425.2	75	65	
Columbus, Ohio	T. P.	60	55	89	90	89	92	92	92	93	88	85	82	78	76	51	51	326.8	425.2	70	67	
Denver, Colo.	T. P.	0	39	42	48	67	73	83	94	94	91	91	91	91	96	95	95	271.1	429.4	63	53	
Des Moines, Iowa	T. P.	83	57	75	86	86	93	94	94	94	91	91	91	91	96	95	95	368.3	429.4	86	68	
Detroit, Mich.	T. P.	63	77	74	81	85	88	88	88	88	83	83	83	83	88	88	88	279.8	408.0	69	63	
Dodge, Kans.	T. P.	0	42	44	51	70	76	80	80	80	85	86	84	82	87	86	86	378.0	422.1	84	66	
Dubuque, Iowa	T. P.	42	31	49	51	61	61	69	67	69	63	61	58	64	63	62	62	307.5	429.4	73	55	
Eastport, Me.	T. P.	33	4	3	9	48	71	74	77	73	72	74	57	57	52	4	4	239.8	436.5	55	45	
Elkins, W. Va.	T. P.	23	32	52	52	52	50	50	50	50	50	50	50	50	50	50	50	290.3	429.4	75	53	
Erie, Pa.	T. P.	0	21	21	28	31	31	31	31	31	31	31	31	31	31	31	31	201.0	437.6	46	46	
Escanaba, Mich.	T. P.	76	33	39	63	63	73	73	73	73	85	85	85	85	85	85	85	287.3	420.1	72	65	
Eureka, Cal.	T. P.	76	73	77	86	86	81	79	79	79	74	74	73	73	73	73	73	279.8	408.0	69	63	
Fresno, Cal.	T. P.	76	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	282.7	423.2	76	65	
Galveston, Tex.	T. P.	76	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	282.7	423.2	76	65	
Grand Junction, Colo.	T. P.	76	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	282.7	423.2	76	65	
Harrisburg, Pa.	T. P.	80	42	42	46	51	51	51	51	51	51	51	51	51	51	51	51	256.7	425.2	58	45	
Helena, Mont.	T. P.	50	53	57	65	71	74	74	74	74	64	67	63	65	55	55	55	281.0	410.0	64	49	
Huron, S. Dak.	T. P.	30	35	35	44	45	52	52	52	51	51	51	51	51	51	51	51	232.7	408.6	54	51	
Indianapolis, Ind.	T. P.	40	48	52	57	63	63	61	61	61	58	58	58	58	58	58	58	287.0	425.2	67	54	
Jacksonville, Fla.	T. P.	47	45	68	68	73	73	73	73	73	71	71	71	71	71	71	71	281.5	408.7	57	47	
Kalispell, Mont.	T. P.	35	36	43	60	63	61	73	71	71	71	71	71	71	71	71	71	285.3	423.5	59	40	
Kansas City, Mo.	T. P.	45	55	60	63	63	66	66	66	66	66	66	66	66	66	66	66	300.5	428.3	71	67	
Key West, Fla.	T. P.	40	47	84	89	88	88	88	88	88	88	88	88	88	88	88	88	286.4	408.8	76	53	
Knoxville, Tenn.	T. P.	73	69	69	73	73	73	73	73	73	90	92	88	88	88	88	88	317.0	418.7	78	70	
Lexington, Ky.	T. P.	45	53	64	76	76	86	81	79	79	79	79	79	79	79	79	79	329.5	422.1	72	59	
Little Rock, Ark.	T. P.	77	77	86	96	97	100	98	98	98	96	94	90	89	78	75	70	100	366.8	417.1	88	71
Los Angeles, Cal.	T. P.	27	34	43	64	79	85	89	89	89	96	96	96	96	96	96	96	0	323.5	415.8	78	69
Louisville, Ky.	T. P.	49	49	54	65	70	70	80	80	80	87	88	79	79	79	79	79	286.1	422.1	58	53	
Macon, Ga.	T. P.	35	65	76	76	80	95	95	95	95	92	91	89	89	89	89	89	310.2	414.0	75	47	
Meridian, Miss.	T. P.	46	45	45	55	65	74	75	74	74	76	68	66	65	65	65	65	227.5	412.6	55	51	
Minneapolis, Minn.	T. P.	16	34	45	54	58	71	73	73	73	73	73	73	73	73	73	73	255.1	435.6	59	45	
Mount Tamalpais, Cal.	T. P.	66	87	87	92	91	91	88	88	88	91	91	91	91	91	91	91	358.4	422.1	77	65	
Nashville, Tenn.	T. P.	38	33	45	61	77	81	82	85	85	78	78	81	81	81	81	81	33	50	418.7	61	
New Orleans, La.	T. P.	100	81	82	85	85	94	94	94	94	85	85	85	85	85	85	85	351.1	409.7	86	65	
New York, N. Y.	T. P.	100	81	82	85	85	94	94	94	94	85	85	85	85	85	85	85	248.2	427.4	59	45	
Northfield, Vt.	T. P.	47	52	62	73	73	72	73	73	73	73	73	73	73	73	73	73	211.8	323.2	50	32	
Oklahoma, Okla.	T. P.	24	26	36	42	56	61	68	69	67	74	74	74	74	74	74	74	360.7	414.0	87	80	
Omaha, Nebr.	T. P.	71	81	84	84	88	98	90	90	90	94	92	94	91	91	91	91	275.6	426.2	65	35	
Parkersburg, W. Va.	T. P.	100	38	36	53	69	76	79	85	86	81	84	74	74	74	74	74	322.9	427.4	77	60	
Phoenix, Ariz.	T. P.	50	61	65	77	88	88	89	89	89	96	96	96	96	96	96	96	322.9	421.3	75	60	
Philadelphia, Pa.	T. P.	67	66	70	71	77	85	85	87	88	88	88	88	88	88	88	88	326.6	426.6	68	47	
Pittsburg, Pa.	T. P.	47	45	55	69	79	80	85	85	84	86	86	85	85	85	85	85	318.4	422.1	73	57	
Pocatello, Idaho	T. P.	12	10	16	20	26	31	39	49	57	53	53	53	53	53	53	53	185.9	427.6	38	36	
Raleigh, N. C.	T. P.	29	36	50	65	78	84	90	90	93	86	86	86	86	86	86	86	266.5	418.7	64	48	
Rochester, N. Y.	T. P.	23	52	71	73	80	94	96	96	96	94	94	94	94	94	94	94	352.1	431.3	82	73	
St. Louis, Mo.	T. P.	50	62	73	73	78	85	85	85	85	88	88	88	88	88	88	88	321.7	423.2	76	60	
St. Paul, Minn.	T. P.	11	31	47	53	57	61	57	55	56												

TABLE IX.—Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during August, 1899, at all stations furnished with self-registering gages.

Stations.	Date.	Total duration.		Total amt. of precip- itation.	Excessive rate.		Amount be- fore exces- sive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Albany, N. Y.	1	2	3	4	5	6	7	0.04	0.08	0.53	0.59	0.62	...	...	...	...	...	...	...	...
Atlanta, Ga.	29-30	4:30 p.m.	7:00 p.m.	0.95	4:25 p.m.	4:40 p.m.	T.	0.04	0.09	0.59	0.62	0.65	...	...	...	...	...	...	0.60	...
Atlantic City, N. J.	2	6:17 p.m.	6:40 p.m.	0.65	6:17 p.m.	6:40 p.m.	0.00	0.09	0.64	0.65	0.67	...	...	...	...	...	...	...	...	...
Baltimore, Md.	5	1:45 p.m.	2:30 p.m.	0.57	1:55 p.m.	2:15 p.m.	0.05	0.13	0.31	0.43	0.51	...	...	...	...	...	...	...	...	0.58
Binghamton, N. Y.	26	8:10 p.m.	D. N.	1.68	8:15 p.m.	9:00 p.m.	T.	0.04	0.25	0.49	0.60	0.82	1.00	1.39	1.51	1.56	...	...	...	*
Bismarck, N. Dak.	13	...	...	0.59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.58
Boise, Idaho	8	...	...	0.51	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*
Boston, Mass.	22	6:05 p.m.	7:30 p.m.	1.38	6:09 p.m.	7:20 p.m.	T.	0.22	0.43	0.85	1.06	1.11	1.18	1.15	1.16	1.18	1.21	1.24	1.37	...	
Buffalo, N.Y.	10	...	...	0.22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cairo, Ill.	15	...	...	0.55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.24
Charleston, S. C.	25	2:11 p.m.	3:54 p.m.	0.63	2:18 p.m.	2:40 p.m.	T.	0.10	0.30	0.41	0.52	0.59	0.60	0.62	0.63	0.65	0.72	0.80	0.90	0.97	1.12
Cincinnati, Ohio	27	6:10 p.m.	D. N.	11.86 a.m.	5.83	6:05 a.m.	6:55 a.m.	0.28	0.05	0.11	0.18	0.35	0.49	0.57	0.74	0.85	0.91	1.01	0.37	...	
Cleveland, Ohio	5	...	...	1.46	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Columbia, Mo.	13	D. N.	10:30 a.m.	1.29	1:22 a.m.	1:50 a.m.	0.06	0.19	0.41	0.50	0.69	0.80	0.85	...	...	...	...	...	...	0.48
Columbus, Ohio	5	...	...	0.43	D. N.	1:22	7:35 p.m.	8:00 p.m.	0.15	0.09	0.30	0.49	0.59	0.63	0.65	0.67	...	...	...	0.57
Denver, Colo.	3	6:40 p.m.	...	0.60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.24
Des Moines, Iowa	4	...	...	0.34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.08
Detroit, Mich.	3	...	...	0.16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dodge, Kans.	6	...	...	5.10 p.m.	6:12 p.m.	5:30 p.m.	6:06 p.m.	0.03	0.08	0.22	0.47	0.53	0.56	0.62	0.70	0.74	0.76	...	...	...
Duluth, Minn.	19	7:35 a.m.	10:30 a.m.	1.03	7:50 a.m.	8:15 a.m.	0.05	0.10	0.40	0.58	0.69	0.71	...	...	...	...	...	...	...	...
Eastport, Me.	23	...	...	0.34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.34
Elkins, W. Va.	2	...	...	0.49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.06
Erie, Pa.	21	...	...	0.05	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Escanaba, Mich.	18	8:02 p.m.	9:55 p.m.	0.96	8:30 p.m.	9:05 p.m.	0.03	0.08	0.20	0.23	0.24	0.27	0.57	0.73	0.73	0.77	0.84	0.98	...	...
Fort Worth, Tex.	18	...	...	0.02	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fresno, Cal.†	...	...	...	0.60	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.42
Galveston, Tex.	30	...	...	0.47	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Grand Junction, Colo.	4	...	...	9:45 a.m.	4:58	3:55 a.m.	4:32 a.m.	0.78	0.10	0.22	0.37	0.65	0.86	1.07	1.25	1.44	1.47	1.51	1.59	...
Hannibal, Mo.	8	1:30 a.m.	7:30 a.m.	0.50	7:30 a.m.	9:05 a.m.	3.01	0.08	0.13	0.20	0.25	0.38	0.45	0.49	0.55	0.76	1.03	1.21	1.44	...	
Harrisburg, Pa.	10	6:20 a.m.	11:00 a.m.	1.50	6:30 a.m.	7:21 a.m.	0.02	0.15	0.27	0.41	0.55	0.70	0.80	0.89	0.97	1.01	1.33	...	...	...
Hatteras, N. C.	12	9:18 p.m.	10:20 p.m.	0.83	9:28 p.m.	9:57 p.m.	0.01	0.22	0.44	0.56	0.60	0.75	0.78	0.81	...	...	...	...	...	...
Huron, S. Dak.	15-18	2:00 a.m.	6:30 a.m.	2.17	2:15 a.m.	4:00 a.m.	0.03	0.07	0.16	0.36	0.39	0.49	0.57	0.65	0.72	0.74	0.76	0.91	1.23	1.49	
Indianapolis, Ind.	2	...	...	8.84	8	8	8	...	...	...	...	...	...	...	...	...	...	...	...	0.73
Jacksonville, Fla.	28	1:05 p.m.	2:30 p.m.	1.15	1:09 p.m.	1:50 p.m.	T.	0.25	0.49	0.72	0.90	0.97	0.98	1.03	1.09	1.12	...	...	...
Jupiter, Fla.	29	...	...	1.74	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.73
Kalispell, Mont.	20-21	...	...	0.70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.12
Kansas City, Mo.	12	8:45 p.m.	11:50 p.m.	0.52	9:18 p.m.	9:35 p.m.	T.	0.15	0.41	0.50	...	...	...	...	...	...	...	...	...	...
Key West, Fla.	26	11:50 a.m.	2:18 p.m.	1.01	12:38 p.m.	1:09 p.m.	0.03	0.15	0.32	0.63	0.74	0.93	...	...	...	...	...	...	...	...
Knoxville, Tenn.	8	4:10 a.m.	5:30 a.m.	1.92	4:14 a.m.	4:50 a.m.	T.	0.22	0.47	0.72	0.87	0.93	1.09	1.15	1.17	1.19	...	...	...
Lexington, Ky.	6	4:00 p.m.	5:15 p.m.	1.61	4:00 p.m.	5:10 p.m.	0.00	0.10	0.18	0.23	0.47	0.63	0.78	0.90	0.99	1.02	1.06	1.37	1.63	...	
Lincoln, Nebr.	12	7:20 a.m.	7:30 a.m.	1.19	2:37 a.m.	4:10 a.m.	T.	0.13	0.19	0.36	0.50	0.74	0.80	0.90	0.92	...	...	...	...
Little Rock, Ark.	25	8:09 p.m.	8:49 p.m.	1.06	5:45 p.m.	6:10 p.m.	0.32	0.07	0.11	0.25	0.46	0.58	...	...	...	...	...	...	...	...
Los Angeles, Cal.	3	8:11 p.m.	10:30 p.m.	1.24	8:25 p.m.	9:05 p.m.	0.04	0.07	0.17	0.26	0.47	0.77	1.01	1.08	1.13	1.16	...	...	...
Louisville, Ky.	6	...	...	0.49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.47
Macon, Ga.	10	5:29 p.m.	6:09 p.m.	0.65	5:35 p.m.	6:00 p.m.	0.03	0.12	0.27	0.44	0.57	0.61	...	...	...	...	...	...	...	...
Memphis, Tenn.	27	5:45 a.m.	8:15 a.m.	0.85	5:50 a.m.	6:35 a.m.	T.	0.06	0.14	0.25	0.45	0.56	0.60	0.66	0.78	0.88	0.94	0.95	0.97	0.95	
Meridian, Miss.	15	4:56 p.m.	7:25 p.m.	1.11	4:59 p.m.	5:56 p.m.	0.01	0.12	0.28	0.37	0.40	0.44	0.53	0.56	0.59	0.70	0.85	1.07	1.09	...	
26-27	10:59 p.m.	D. N.	11:05 p.m.	11:40 p.m.	0.03	0.12	0.29	0.43	0.46	0.49	0.55	0.55	...	...	...	...	...	...	...	0.60
Milwaukee, Wis.	10	...	...	0.75	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Montgomery, Ala.	27-28	10:25 p.m.	2:15 a.m.	1.08	11:30 p.m.	12:07 a.m.	T.	0.24	0.36	0.43	0.48	0.51	0.60	0.66	0.80	0.88	0.97	1.02	...	...
Nantucket, Mass.	31	2:00 p.m.	3:30 p.m.	1.72	2:32 p.m.	3:10 p.m.	T.	0.11	0.17	0.57	0.80	1.12	1.48	1.64	1.71	...	...	...	...	...
Nashville, Tenn.	10-11	1:34 p.m.	8:26 a.m.	1.74	5:10 a.m.	6:00 a.m.	0.76	0.06	0.13	0.24	0.32	0.42	0.55	0.59	0.67	0.75	0.80	...	...	...
New Orleans, La.	20	...	...	0.45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.41
New York, N. Y.	10	6:03 a.m.	10:45 a.m.	2.24	9:12 a.m.	9:50 a.m.	1.02	0.05	0.16	0.35	0.40	0.55	0.57	0.61	0.66	0.72	0.78	0.82	0.97	1.20	
Norfolk, Va.	17-18	...	...	0.95	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.21
Northfield, Vt.	2	...	...	0.28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.15
Oklahoma, Okla.	23	10:15 a.m.	11:00 a.m.	0.80	10:20 a.m.	10:52 a.m.	0.01	0.07	0.28	0.38	0.45	0.59	0.60	0.73	0.79	...	...	...	...	0.56
Omaha, Nebr.	7	8	...	...	0.72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Parkersburg, W. Va.	11	...	...	0.72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Philadelphia, Pa.	10	8:37 p.m.	10:45 p.m.	2.02	8:40 p.m.	9:35 p.m.	T.	0.13	0.40	0.69	1.10	1.39	1.48	1.57	1.64	1.77	1.87	1.97	2.00	2.03	
Pittsburgh, Pa.	5	3:25 p.m.	5:30 p.m.	0.83	3:37 p.m.	3:47 p.m.	T.	0.23	0.54	0.59	0.60	0.61	0.61	0.64	0.67	0.70	0.73	...	...	...
Pocatello, Idaho	8	...	...	0.16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Portland, Me.	5	...	...	0.30	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Portland, Oreg.	26	...	...	0.45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.19
Raleigh, N. C.	22	6:50 p.m.	8:25 p.m.	0.86	6:57 p.m.	7:32 p.m.	T.	0.10	0.31	0.46	0.54	0.62	0.75	0.85	...	...	...	...	...
Richmond, Va.	26-27	5:15 p.m.	7:25 p.m.	2.04	3:55 p.m.	4:40 a.m.	0.27	0.12	0.33	0.50	0.60	0.69	0.78	1.18	1.38	1.48	1.54	1.63	1.68	1.73	
Rochester, N. Y.	21	...	...	0.17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
St. Louis, Mo.	6	12:33 a.m.	5:30 a.m.	0.90	12:35 a.m.	12:55 a.m.	0.01	0.12	0.41	0.47	0.50	0.51	...	...	...	...	...	...	...	...
St. Paul, Minn.	23	...	...	0.49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.42
Salt Lake City, Utah*	17	...	...	0.07	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.07
San Diego, Cal.	17	...	...	0.07	T.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
San Francisco, Cal.	7	4:08 p.m.	8:30 a.m.	5.71	1	1	0.33	0.04	0.10	0.28	0.34	0.48	0.65	0.88	0.95	1.03	1.08	1.19	...	...
Savannah, Ga.	27-29	...	...	0.62	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.29
Seattle, Wash.	13-14	...	...	1.10	...	...													

TABLE IX.—Accumulated amounts of precipitation for each 5 minutes, etc.—Continued.

Stations.	Date.	Total duration.		Total amount of precipi- tation.	Excessive rate.		Amount be- fore exces- sive began.	Depths of precipitation (in inches) during periods of time as indicated.*													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Port of Spain, Trin...	1	2	3	4	5	6	7														
	6	8.00 p.m.	8.30 p.m.	0.61	3.00 p.m.	3.25 p.m.	0.00	0.19	0.38	0.51	0.57	0.61	.....	.....	.....	.....	.....	.....	.....	.....
	7	12.40 p.m.	1.50 p.m.	0.98	1.00 p.m.	1.15 p.m.	0.20	0.09	0.44	0.74	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Puerto Principe, Cuba	12	1.55 p.m.	3.00 p.m.	1.71	2.20 p.m.	2.55 p.m.	0.10	0.18	0.37	0.50	0.72	0.99	1.48	1.61	.....	.....	.....	.....	.....	.....
	90	7.07 a.m.	8.15 a.m.	1.31	7.25 a.m.	8.00 a.m.	0.02	0.06	0.38	0.57	0.86	1.14	1.29	1.27	.....	.....	.....	.....	.....	.....
	25	8.12 p.m.	4.37 p.m.	1.69	3.15 p.m.	4.15 p.m.	0.03	0.15	0.37	0.57	0.68	0.76	0.79	0.93	1.11	1.30	1.45	1.57	1.66	.....
San Juan, Porto Rico	7-9	D.N.	5.00 a.m.	6.86	0.26	0.05	0.17	0.30	0.43	0.53	0.57	0.61	0.68	0.74	0.81	0.90	1.12	1.25	1.56
	20	5.47 a.m.	7.00 a.m.	0.92	5.50 a.m.	6.13 a.m.	T.	0.24	0.57	0.72	0.82	.....	.....	.....	.....	.....	.....	.....	.....	.....
Santiago de Cuba	10-11	8.18 p.m.	10.15 a.m.	4.41	12.47 a.m.	1.18 a.m.	0.40	0.18	0.42	0.67	0.88	0.98	1.09	1.12	.....	.....	.....	.....	.....	.....
Willemstad, Curaçao..	24	5.43 a.m.	7.50 a.m.	0.87	6.33 a.m.	7.03 a.m.	0.15	0.15	0.18	0.18	0.19	0.44	0.71	.....	.....	.....	.....	.....	.....	.....

* Self-register out of order. + No precipitation during the month. † From 10:45 p.m. to 11:55 p.m., 28th. § Precipitation from 11 a.m. of the 15th to 9:10 p.m. of the 18th was 10.64 inches. The record during the period of excessive rainfall was lost on account of gage being washed away by high tides. || From 7 p.m. to 7:55 p.m., 27th. ¶ From 6:50 a.m. to 9:10 a.m., 8th.

TABLE X.—*Excessive precipitation, by stations, for August, 1899.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		.
		Amt.	Day.	Amt.	Time.	
Alabama.						
Alco.	Inches.	2.80	14	Ins.	h.m.	..
Clanton.				1.45	0 30	12
Madison Station.				1.05	1 00	20
Montgomery				1.31	0 45	23
Do.				1.02	0 50	27-28
Do.				1.70	0 37	31
Newton.		8.76				
Union Springs.		4.10				
Arizona.						
Mount Huachuca.				2.15	1 00	7
Strawberry.				1.23	0 45	31
Arkansas.						
Conway.				1.60	1 00	25
Corning.				1.90	1 45	27
Lacrosse.				2.10	2 00	4
Little Rock.				1.00	0 32	25
Newport.				1.50	1 20	18
Colorado.						
Pueblo.				1.75	0 40	13-14
Connecticut.						
Colchester.		3.05	10	1.56	1 00	5
Storrs.						
Florida.						
Archer.		3.01	7	1.30	0 40	16
Brooksville.						
Clermont.		11.73				
Do.		4.50	14			
Do.		3.00	27	3.00	2 00	27
Defuniak Springs.		2.50	28			
Eustis.		11.80				
Federal Point.		3.18	6			
Jacksonville.		2.53	10	2.53	1 10	10
Key West.				1.43	1 00	9
Kissimme.		11.06				
Macclellany.		2.95	14			
New Smyrna.		2.61	27			
Pensacola.		2.60	28			
St. Andrews.		10.49				
Stephensville.		3.13	2			
Tallahassee.		2.78	30			
Tampa.		10.23				
		2.90	21			
		11.46	7.45	1-2		
Georgia.						
Augusta.				1.00	0 42	27
Bellville.				2.14	2 20	10
Blakely.		11.87				
Brag.		3.50	2			
Clayton.				2.00	2 00	20
Crescent.		12.00				
Diamond.		5.70	28	1.12	1 00	
Fleming.				1.00	1 00	30
Fort Gaines.				3.04	28	
Greenbush.				2.71	2	13
Mauzy.				1.23	1 15	26
Quitman.				2.84	2	
Savannah.		4.45	1-2			
Washington.		5.71	27-29	1.19	0 55	27
Westpoint.		3.56	26			
Illinois.						
Bushnell.				1.80	1 30	27
Carlinville.				1.13	1 00	20
Coatsburg.		3.85	8			
Griggsville.		3.90	8			
Hillsboro.		3.05	8			
Laharpe.		3.63	8	1.00	0 45	18
Martinton.		2.65	20			
Mattoon.				1.75	0 25	9
Indiana.						
Bright.		2.91	5	2.90	2 30	5
Columbia City.				2.80	10	10
Evansville.		2.51	26			
Fort Wayne.		4.78	26	1.48	0 49	26
Indianapolis.		2.53	2	2.17	1 15	2
Do.				1.33	0 25	3
Paoli.		4.15	10	4.15	2 10	10
Richmond.		3.71	5			
Vevay.		2.60	5			
Washington.		3.80	8-9			
Iowa.						
Ames (near).		3.05	4-5			
Belknap.		3.50	8			
Carson.		3.04	7			
Coon Rapids.				1.17	0 45	23
Council Bluffs.		2.80	7			
Davenport.		2.61	4 5			
Emerson.		2.80	4			
Emmetsburg.		2.53	18			
Glenwood.		2.50	13			
Grand Meadow.		3.70	23			
Griswold.		2.65	8			
Lamoni.		2.50	7			
Lausing.		2.83	8			
Mocar.		3.20	8			
Northwood.		2.90	2			
Osage.				2.01	0 37	31
Pacific Junction.		2.95	12			
Thurman.		10.45	4.10	4.10	1 30	12
Waterloo.				1.02	1 00	20
Kansas.						
Augusta.		2.55	14			
Bunker Hill.		6.00	25	6.00	1 30	25

TABLE X.—*Excessive precipitation—Continued.*

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		.
		Amt.	Day.	Amt.	Time.	
Kansas—Continued.						
Emporia.	Inches.	2.50	25-26			
Fanning.		3.58	26			
Grenola.		3.13	14			
Independence.		2.81	13-14			
Sedan.		3.83	13-14			
Kentucky.						
Bardstown.						
Ensor.		2.91	9	1.75	0 30	12
Lexington.						
Do.						
Maysville.		2.98	5			
Middlesboro.		3.32	11-12	2.42	2 00	13
Vanceburg.		2.80	11			
Louisiana.						
Donaldsonville.						
Emilie.						
Franklin.						
Jeanerette.						
Lake Charles.						
Melville.						
Prevost.		2.63	20			
Robeline.						
Do.						
Shellbeach.						
Maryland.						
Baltimore.						
Coleman.		3.63	10	1.44	0 32	26
Fallston.		2.53	10-11			
Harney.		2.70	26			
Jewell.		2.55	5			
Pocomoke City.						
Rockhall.		2.53	10			
Smithsburg.		2.77	26			
Sudlersville.		2.50	9-10			
Taneytown.						
Van Bibber.		8.47	10	1.10	0 40	2
Massachusetts.						
Boston.						
Chestnut Hill.						
Jefferson.						
Monson.		3.72	23	8.50	1 00	23
Michigan.						
Battle Creek.		2.70	10			
Iron Mountain.						
Ivan.						
Lathrop.						
Marquette.						
Menominee.						
North Marshall.						
Thomaston.						
Minnesota.						
Ada.						
Alexandria.						
Beardsley.		11.62		2.70	80	
Brainerd.				2.50	16-17	
Caledonia.				2.83	3	
Long Prairie.				3.26	16-17	
Minneapolis (W. B.).						
Minneapolis (V. O.).						
Morris.		11.68		3.35	19	
Pine River.		10.32		4.43	8	
Pokegama.				2.74	16-17	
Mississippi.						
Batesville.						
Columbus.						
Edwards.						
Logtown.						
Meridian.						
Vicksburg.						
Waynesboro.						
Windham.						
Woodville.						
Missouri.						
Birchtree.						
Hannibal.						
Do.						
Do.						
Houstonia.						
Ironton.						
Louisiana.						
McCune.						
New Palestine.						
Do.						
Steffenville.						
Sublett.						
Montana.						
Havre.						
Nebraska.						
Agee.						
Culbertson.						
David City.						
Fremont.						
Genoa.						
Grand Island.						
Griswold.						
Lamoni.						
Lausing.						
Mocar.						
Northwood.						
Osage.						
Pacific Junction.						
Thurman.						
Waterloo.						
Kansas.						
Augusta.		2.55	14			
Bunker Hill.		6.00	25	6.00	1 30	25
Neb.						
Nebraska.						
Agee.						
Culbertson.						
David City.						
Fremont.						
Genoa.						
Grand Island.						
Griswold.						
Lamoni.						
Lausing.						
Mocar.						

TABLE X.—*Excessive precipitation*.—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Time.			Amt.	Day.	Amt.	Time.
<i>Nebraska—Continued.</i>											
Omaha	Inches.	Inches.	Ins.	h.m.		Philadelphia	Inches.	Inches.	Ins.	h.m.	
Ravenna		2.88	7-8			Towanda		2.89	9-10		
Rulo		3.52	8-4			York		3.83	27		
Salem		2.50	26			Kingston		3.17	11		
Schuyler		2.95	27			Narragansett		4.89	10-11		
Do		2.60	5			South Carolina		8.39	10-11		
Syracuse		2.83	9			Allendale		16.59	3.00	14-15	
Turlington		3.10	13			Batesburg					
Wilber		2.64	14			Beaufort		10.51	3.69	24	
<i>New Hampshire.</i>											
Hanover						Blackville					
<i>New Jersey.</i>						Charleston					
Atlantic City		2.87	10-11			Georgetown					
Bergen Point		2.76	10			Kingstreet					
Beverly		2.72	10-11			Pinopolis		17.90	2.00	8	
Billingsport		3.55	10-11	2.10	1 00	Do		8.00	27		
Bridgeton		4.57	10-11	2.15	3 00	St. Georges		10.84			
Egg Harbor City		2.51	21			St. Stephens		10.81			
Moorestown		2.56	10			Shawsford		2.55	10		
Mount Pleasant		2.89	10			Spartanburg					
Newark						Statesburg					
Paterson						Summerville		15.42	7.51	29-30	
Perth Amboy		2.63	10	1.16	0 45	Trial		2.72	27	1.59	1 15
Plainfield											8
Salem		3.12	2			<i>Pennsylvania—Continued.</i>					
Staffordville		5.46	10			Philadelphia		2.89			
Trenton		3.18	10			Towanda		3.83			
Tuckerton		6.15	10-11	1.90	0 30	York		3.17			
Vineland		3.21	10			<i>Rhode Island.</i>					
<i>New Mexico.</i>						Kingston		4.89	10-11		
Aztec						Narragansett		8.39	10-11		
San Marcial						Allendale		16.59	3.00	14-15	
<i>New York.</i>						Batesburg					
Jamestown						Beaufort		10.51	3.69	24	
New York						Blackville		3.81	26-27		
Nunda						Charleston		4.24	28-29		
Volusia						Georgetown		5.50	28-29		
Waeverly		3.46	26-27			Kingstreet		2.96	29-30		
<i>North Carolina.</i>						Pinopolis					
Charlotte		2.52	27	1.80	1 00	Do					
Edenton		4.40	17			St. Georges		10.84			
Hatteras		14.19	2.57	15-16		St. Stephens		10.81			
Do		5.50	17-18	1.00	1 00	Shawsford		2.55	10		
Horsecove		2.87	29			Spartanburg					
Marshall						Statesburg					
Monroe						Summerville					
Pantego		12.60	8.48	16-18		Tennessee					
Waynesville						Milan					
Wilmington						Nunnely					
<i>North Dakota.</i>						Jasper					
Fullerton		5.20	19-20			Sabine Pass		3.29	18		
<i>Ohio.</i>						<i>Virginia.</i>					
Bethany		3.88	5			Buckingham		4.25	26-27		
Cincinnati						Farmville		3.53	27		
Delaware						Fontella		4.65	26	4.00	4 00
Dupont		4.25	3-4	1.22	0 30	Lynchburg		2.70	6	1.08	0 45
Hudson		3.33	4-5			Miller School					
New Paris		5.43	5			Richmond					
Ripley		3.60	11	3.00	2 00	Stanardsville					
Springboro		4.35	5			Warrenton		3.93	28		
Vanceburg		3.50	10-11			<i>West Virginia.</i>					
Warsaw						Cairo		3.80	2		
Do						Eastbank					
<i>Oregon.</i>						Harpers Ferry		3.75	27-28		
Bay City						Madison		3.00	2		
<i>Pennsylvania.</i>						Upper Tract					
Altoona		3.40	28			<i>Wisconsin.</i>					
Aqueduct		3.90	27	1.77	1 20	Delavan		32.22	23.00	7-8	23.00
Athens		2.79	27			Bayamon		18.03	6.12	7-8	23.00
Beaver		3.87	10			Canovanas		12.58	7.15	8	
Bethlehem		3.10	27			Cayey		15.39	11.02	8	
Browers Lock		3.14	27			Fajardo		5.00	8		
Carlisle		10.09	9.35	26-27	1.84	Guayama		5.00	8		
Coatesville						Isabella		15.00	11.20	9	
Coopersburg		3.10	27			Juana Diaz		15.71	11.20	8-9	
East Mauch Chunk						La Isolina		22.16	18.00	7-9	
Easton		3.95	26-27			Lajas		22.07	8.20	8	
Girardville		3.00	27			Luquillo		12.65	9.00	7-8	
Harrisburg		2.67	26-27	1.29	0 45	Manati		11.69	9.50	8-9	
Lawrenceville		4.20	26-27			Mayaguez		10.02	8.40	8	
Leroy		3.36	26-27	1.55	0 45	Do		5.00	29		
Lewisburg		4.63	27			Puerto de Tierra		5.20	8		
Lockhaven		3.60	27			Vieques		5.30	8		
<i>West Indies.</i>						<i>West Indies.</i>					
Cienfuegos						Cienfuegos					
Port of Spain						Port of Spain		3.50	12-13	1.50	0 38
Do										1.14	0 23
Puerto Principe						Puerto Principe		2.59	24-25	1.50	0 53
San Juan						San Juan		10.38	6.26	8-9	
Santiago de Cuba						Santiago de Cuba		4.95	10-11	1.07	0 27
											11

TABLE X.—*Excessive precipitation*—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.	
		Amt.	Day.	Amt.	Time.			Amt.	Day.	Amt.	Time.
<i>Pennsylvania—Continued.</i>											
Philadelphia		2.89	9-10			Towanda		3.83	27		
Towanda						York		3.17	11		
Do						<i>Rhode Island.</i>					
Narragansett						Kingston		4.89	10-11		
Allendale						Narragansett		8.39	10-11		
Batesburg						<i>South Carolina.</i>					
Beaufort						Allendale		16.59	3.00	14-15	
Blackville						Batesburg					
Charleston						Beaufort					
Georgetown						Blackville					
Kingstreet						Charleston					
Pinopolis						Georgetown					
Do						Kingstreet					
St. Georges						Pinopolis					
St. Stephens						Do					
Shawsford						Do					

TABLE XI.—*Data furnished by the Canadian Meteorological Service, August, 1899.*

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